BUYERS' DIRECTORY NUMBER FOR FLEETS NOVEMBER 1949

ccj COMMERCIAL CAR JOURNAL

11/15

THE MAGAZINE FOR FLEET OPERATORS

Reo . . . Golden Gate to greater profits

Want greater profits by economizing on your trucking operation? Read what Reo's Oakland branch reports on a Gold Comet-powered Reo E-22 hauling spring water from Marin County to San Francisco:

"Driver, owner astounded . . . save hour and a half on two daily trips . . . cut gas consumption from 20 to 12 gallons per day . . . make tough Waldo cut-off grade in seven minutes instead of 20 . . . owner, Alhambra National Water Company, calls Reo E-22 (trailer equipped with 3,685-gallon tank) really outstanding."

The Gold Comet can be the golden gate to greater profits in *your* operation, too. See your Reo dealer today for an on-the-job demonstration.

REO MOTORS, INC., LANSING 20, MICHIGAN

REO

5811-1

WITH ALL THEIR EXTRA VALUE...

DODGE

"Job-Rated" TRUCKS are priced with the lowest!

It's what you get for what you pay that counts!

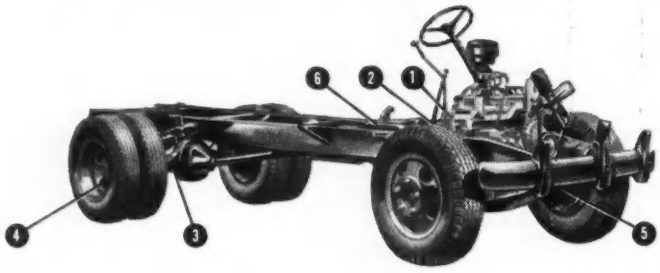
Read, on this page, why Dodge "*Job-Rated*" trucks offer you *extra* value.

Then, see your Dodge dealer. Ask him to quote you the price of the Dodge "*Job-Rated*" truck that fits your hauling or delivery job.

You'll get more for your money . . . in performance, in economy, in long-lasting truck satisfaction.

See your Dodge dealer *now*.

Dodge "Job-Rated" Chassis Features



1. SUPER-FRICTION CLUTCHES. Large frictional areas. "*Job-Rated*" for smooth action and long life.

2. RUGGED 3-, 4- or 5-SPEED SYNCHRO-SHIFT TRANSMISSIONS —"*Job-Rated*" for the load. Carburized gears; heat-treated shafts; antifriction bearings throughout.

3. FULL-FLOATING REAR AXLES . . . Hypoid design; banjo-type housing . . . "*Job-Rated*" for the load. Long life . . . low upkeep cost.

4. CYCLEBONDED BRAKE LININGS (no rivets) prolong brake life.

5. CROSS-TYPE STEERING . . . Sharp turning angle; easier handling, and parking.

6. SAFETY-LOCATED GAS TANKS . . . Outside the cab, NOT inside!

• • •

NEW STEERING COLUMN GEARSHIFT . . . Standard equipment on ½-, ¾- and 1-ton models with 3-speed transmissions . . . provides easier handling, more unobstructed floor space, greater safety of operation.

"RIGHT-SPOT" HAND BRAKE . . . under the center of the cowl . . . right where you want it. Standard on all ½-, ¾- and 1-ton models. Provides unobstructed floor space; easier passage through either cab door.

Dodge "Job-Rated" Engine Features!

- **FAMOUS DODGE L-HEAD TRUCK ENGINES . . .** "Job-Rated" for your loads; save gas, oil.
- **COMPLETELY SPLASH- AND DUST-PROOF ELECTRICAL SYSTEM . . .** with high-output generator. Resistor-type spark plugs, and high-output coil, insure amazingly smooth engine operation; longer plug life.
- **EXHAUST VALVE SEAT INSERTS . . .** resist wear and pitting. Reduce valve grinding; preserve performance.
- **REPLACEABLE PREFITTED MAIN BEARINGS . . .** precision, long-life quality. Reduce maintenance costs.
- **FULL-PRESSURE LUBRICATION . . .** positive pressure to main, connecting rod and camshaft bearings and camshaft drive, prolongs engine life.
- **FULL-LENGTH CYLINDER COOLING . . . 4-RING ALUMINUM ALLOY PISTONS . . . OIL-BATH AIR CLEANER** and many other money-saving features!

For the good of your business...

switch to DODGE "Job-Rated" TRUCKS

3811-1

Use

FORM-A-GASKET

For

LEAK-PROOF ASSEMBLIES

PERMATEX COMPANY INC., BROOKLYN 29, N. Y.

2142-1

COMMERCIAL CAR

Vol. LXXVII Philadelphia, Nov., 1949 No. 3

EDITORIAL STAFF

Charles Bartlett Rawson
Editor

A. W. Greene, *Managing Editor*

M. K. Simkins, *Technical Editor*

Michael J. Germak, *Assistant Editor*

Joseph Geschelin, *Detroit Technical Editor*

Leonard Westrate, *Detroit News Editor*

Marcus Ainsworth, *Statistician*

Howard Kohlbrenner, *Art Director*

Gene Hardy, Karl Rannells, George Baker
Washington News Editors

R. Raymond Kay, *Pacific Coast Editor*

EDITORIAL CONTENTS

Copyright 1949 by Chilton Company (Inc.)

THIS MONTH'S FEATURE:

CCJ's

Annual BUYERS' DIRECTORY Number

for Fleet Operators

. . . . See Page 65

Report on ATA Convention 258

DEPARTMENTS

Conference Corner	6	The Overload	38
Shop Hints	15	Laugh It Off	42
Time Out for Play	22	The Bulletin Board	45
Detroit Dispatch	27	Free Publications	48
Washington Runaround	30	New Products	49
CCJ Newscast	35	Truck Specifications	57

New Registrations 60

CCJ Reader Digest

Shop Hints from Fleet Shops . . .

Everyone reads the shop hints. They recommend themselves. Several enterprising mechanics have contributed this month with practical suggestions for a tire remover, a tool stand, a drill jig, and a brake modification. Page 15.

Washington Runaround . . .

The latest legislative info., new government reports, recent decisions of transportation organizations is summarized for your easy reading in this monthly feature. Keep abreast of the latest developments. See page 30.

The Conference Corner . . .

Cold weather sludge raises cain with engine parts. Winter is coming, so don't get caught with your pans down. See what experts say with regard to insulating crankcase pans and valve cover plates. Page 6.

Detroit Dispatch . . .

Some big truck makers have some big plans in the bag. Ford, General Motors, Chevrolet, IHC reveal startling announcements in new engines, brakes and mufflers. See what our Detroit reporter says. Page 27.

The Bulletin Board . . .

Having trouble getting drivers to make quick vehicle checks before piling behind the wheel? Here are some timely tips for your boys. Pin this page to your bulletin board (or get extra copies from CCJ) and spread the "word." They'll get a kick out of it. Page 45.

JOURNAL

with which is combined Operation & Maintenance

Reg. U. S. Pat. Off. Member C.C.A.

G. C. BUZBY, President and Manager, Automotive Division
E. W. HEVNER, Cir. Mgr. E. H. MILLER, Adv. Mgr.

REGIONAL BUSINESS MANAGERS

HARRY T. LANE, Chicago
CURTISS F. MOSS, Chicago
H. M. WERTZ, Chicago
JACK C. HILDRETH, Cleveland
A. T. ARNOLD, New York City
E. E. ELDER, Detroit
J. A. LAANSMA, Detroit
RUSSELL W. CASE, Jr., Philadelphia
AUGUST HAURIN, JR., Los Angeles
C. H. WOOLLEY, San Francisco

OFFICES

Philadelphia 39, Pa.—Chestnut & 56th Sts., Phone Granite 4-5600
New York 17, N. Y.—100 E. 42nd St., Phone Murray Hill 5-8600
Chicago 1, Ill.—Rm. 916 London Guar. & Accident Bldg., Ph. Franklin 2-4243
Detroit 2, Mich.—1015 Stephenson Bldg., Phone Trinity 5-2090
Cleveland 14, Ohio—1030 National City Bank Bldg., Phone Cherry 4188
Washington 4, D. C.—1091 and 1093 National Press Bldg., Ph. Sterling 1844
San Francisco 5, Cal.—605 Market St., Rm. 608, Phone SUtter 1-4951
Los Angeles 1, Calif.—6000 Miramonte Blvd., Phone Lafayette 5525

COMMERCIAL CAR JOURNAL is published monthly by Chilton Co., N. W. Cor. Chestnut & 56th Sts., Philadelphia 39, Pa. Subscription price: United States and Possessions, $5.00 per year; all other countries $10.00 per year. Single copies 50¢, except April issue, $1.00. Acceptance under the Act of June 5, 1934, authorized December 18, 1931.

One of the Publications Owned by

CHILTON COMPANY (INC.)

Executive Offices
Chestnut and 56th Streets, Philadelphia 39, Pa, U.S.A.

Officers and Directors
JOS. S. HILDRETH, *President*

Vice Presidents

EVERIT B. TERHUNE
P. M. FAHRENDORF
G. C. BUZBY
CHARLES J. HEALE
WILLIAM H. VALLAR, *Treasurer*
JOHN BLAIR MOFFETT, *Secretary*
HARRY V. DUFFY
D. ALLYN GARBER
GEORGE T. HOOK
MAURICE E. COX

GEORGE MAISWINKLE, *Asst. Treas.*

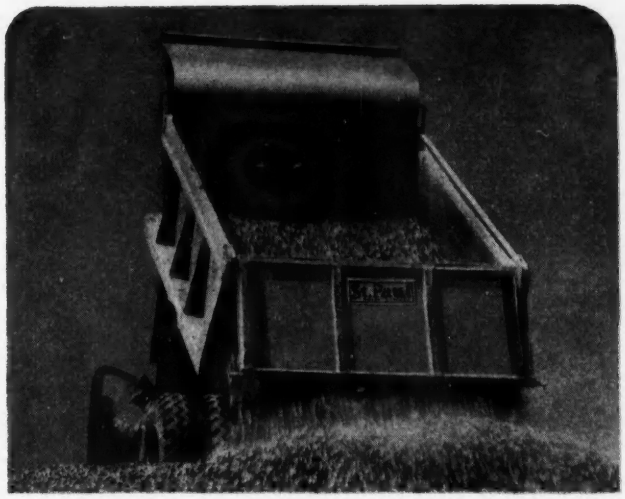
PAUL WOOTON, *Washington Member of the Editorial Board*

For Your Reference . . .

. . . And convenience, Commercial Car Journal devotes the major part of this issue to a comprehensive Buyers' Directory for truck and bus fleet operators. It is as complete and accurate as months of hard work on the part of the entire staff can make it. A marked departure from both previous November Show Numbers and regular monthly issues, this directory has been developed as a result of hundreds of requests from fleetmen seeking names and addresses of manufacturers and the specific products they market.

This number has a three-fold utility. First, it shows *where to buy* needed parts and equipment of every type. Second, it serves as a means of *selecting* the manufacturer best able to meet specific requirements. Third, it provides a *check list* of tools, shop equipment, supplies, parts and accessories, some of which may have been overlooked in stocking the parts room, equipping the vehicle or furnishing the shop.

Readers will want to file this special issue as a permanent reference. Keep it handy the year 'round. For detailed information on how to use this guide efficiently, turn to page 65.

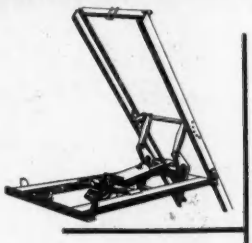


At your Service . . .

the complete St.Paul line

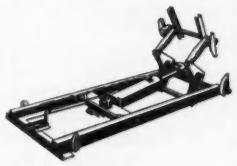
Dump IT HOISTS

A Dump It Hoist makes a dump truck out of any platform body type of truck. Users on farms, in lumber yards and industries are finding that *dumping* the loads saves time, labor and money.



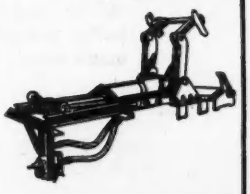
STANDARD DUTY

With dump bodies of 8 to 10 ft. lengths and 2 to 5 cu. yd. capacities St.Paul offers four arm-type hoist models. These units are used on trucks with a nominal rating of 1½ to 3 tons. All have the new St.Paul roller-bearing pump, honed cylinders, cast steel lifting arms and links.



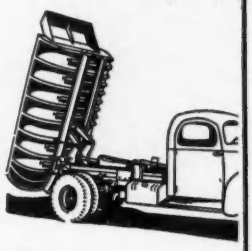
HEAVY DUTY

For trucks with a nominal rating of 3 to 10 tons and for trailer installations the St.Paul line includes 3 hoists (Models 7, 85 and 95) and two series of heavy duty bodies (8 gauge and 10 gauge steel). Body capacities may be up to 10 cubic yards.



HI-DUMPERS

For quarrying or mining operations St.Paul provides Excavator type bodies of ¼" steel plate with I-beam outside bracing. For dumping this type of body in capacities up to 8 cu. yd. we offer the St.Paul line of Hi-Dumper Hoists with dumping angle of 70°.



At your service—your St.Paul Distributor—a Dump Body Specialist. Write us for his name.

ST.PAUL DIVISION
GAR WOOD INDUSTRIES, INC.
2207 University Avenue S.E., Minneapolis 14, Minn.

3831-50

This test "Hammers Home" the fact that...

Maintenance Costs Less

HIT IT HARD! *Marfak* won't splatter like ordinary grease—proof that heavy loads and rough roads won't hammer it out of spring shackles, tie rods and other chassis parts ... proof that *Marfak* gives safer, longer-lasting protection with fewer applications.

Because Texaco Marfak won't assures longer

HAMMERING jolts . . . heavy loads . . . road splash—you can protect your chassis bearings against all of them by using *Texaco Marfak.* It's the world's most famous chassis lubricant. *Texaco Marfak* guards bearings against dirt, rust and wear for extra hundreds of miles between overhauls . . . assures longer life for chassis parts . . . reduces maintenance costs.

To give your wheel bearings the same line-up of protection, use *Texaco Marfak Heavy Duty.* It seals itself in,

SOLD TO DATE—

TEXACO

jolt or squeeze out of bearings . . . life for all chassis parts.

assuring safer braking . . . seals out dirt and moisture . . . rustproofs the bearing metal. No seasonal change is required.

Let a Texaco Lubrication Engineer help you get higher operating efficiency, lower maintenance costs. Just call the nearest of the more than 2300 Texaco Wholesale Distributing Plants in the 48 States, or write:

The Texas Company, 135 East 42nd Street, New York 17, New York.

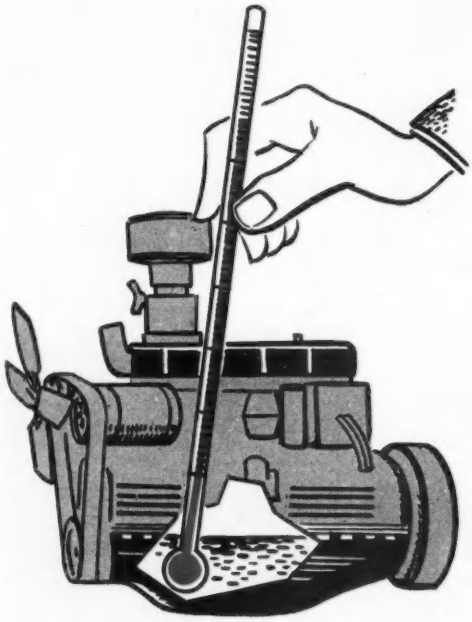
More than 300 Million Pounds of Texaco Marfak!

FOR LOWER ENGINE MAINTENANCE COSTS use the fully detergent-dispersive lubricant—*Texaco D-303 Motor Oil.* It keeps engines clean . . . powerful . . . trouble-free . . . assures greater fuel economy.

Lubricants and Fuels

FOR THE TRUCKING INDUSTRY

1288-2



CONFERENCE CORNER

CRANKCASE INSULATION

Question: Do You Recommend Insulating Crankcase Pans and Valve Cover Plates to Cut Cold Weather Sludge?

***Oil Company Engineers*... in general, recommend some method of crankcase insulation when stop and go fleets experience unusual amounts of sludge in cold weather months. It is suggested, however, that all other temperature regulating factors be considered first. Careful selection of oil, too, is of prime importance in keeping down crankcase formation.**

Regular Undercoating Cuts Low Temperature Sludge

by C. R. Scott

Wolf's Head Oil Refining Co., Inc.

"We recommend the practice of insulating crankcase pans and valve cover plates to help minimize low temperature sludging. Assuming, of course, that our other factor such as using high temperature thermostats, efficient crankcase ventilating equipment, etc., are also taken into consideration by the operator.

"Any insulating material can be used for this purpose and one that has been quite effective and is very easy to apply is regular undercoating, that is being used today to insulate in the under-carriage against squeaks, rusting, etc.

"The use of crankcase pan and valve cover plate insulation will help to keep engine temperatures up high enough so that crankcase oil contaminants can be purged from the engine through the exhaust, providing, of course, that there is adequate crankcase ventilation.

"In addition we would point out, that some oils are very much better than others in minimizing low temperature sludging. Consequently, fleet operators should be sure to use an oil that is known to have ability to minimize low temperature sludging. Many heavy duty oils are successful in eliminating high temperature sludge and varnish deposits but are ineffective in minimizing low temperature sludging. We think this is a very important matter and in addition to recommending that the fleet operator follow good maintenance practices such as those outlined above, he should realize that the selection of the right type of oil can further aid in eliminating low temperature sludge deposits encountered in stop and go operations."

Use a Paste or An Auxiliary Pan

by E. W. Cave

Sales Engineering Division Continental Oil Co.

"We have recommended insulating crankcase pans and valve cover plates in order to raise oil temperatures to improve lubrication and reduce the cold crankcase sludge problem.

"There are two general ways which are usually followed in insulating the pans and valve cover plates. The first and easiest method of application is to use one of the common asbestos type insulating materials which can be mixed with water and applied as a paste. The procedure for preparation when using this method is to use metal lathe which can be anchored under a few of the pan bolts or

(TURN TO PAGE 10, PLEASE)

Cost Conscious?

If you're interested in getting

more work out of your equipment on

less low-cost fuel, with less upkeep,

over more profit-making hours . . .

Choose Cummins Diesels

P.S. Your Cummins Dealer can show you proof. Call him today!

CUMMINS ENGINE COMPANY, INC. · COLUMBUS, INDIANA

EXPORT: CUMMINS DIESEL EXPORT CORPORATION · COLUMBUS, INDIANA, U. S. A. · CABLE: CUMDIEX

1820-1

"We're glad
AUTO-LITE
sta-ful
The
Original Equipment
Line

We installed Sta-ful

R. E. THORPE, Driver
Dakota Storage & Transfer Co.
Minneapolis, Minn.

WM. H. HENNESSY, Shop Foreman
Dakota Storage & Transfer Co.
Minneapolis, Minn.

" 'No battery in our history ever equalled Sta-ful. It's amazing how Sta-ful's extra liquid reserve protects against battery "drought". We're glad we installed Sta-ful in our fleet—it's best by far.' This statement of R. E. Thorpe shows how our drivers go for Sta-ful." Wm. H. Hennessy, Dakota Storage & Transfer Co., Minneapolis, Minn.

HERE'S WHAT Sta-ful DOES FOR YOU

1 Needs water only 1/3 as often.

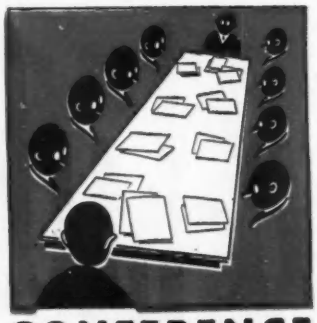
2 Helps keep plates fully covered for abundant starting power.

3 Reduces time and bother of battery servicing—lasts longer too.

4 Helps reduce operating costs by keeping fleets on schedule.

AUTO-LITE
EARNS PRECISION
MANUFACTURING

1512 - 2



CONFERENCE CORNER

Continued from Page 6

through the cover plate cap screws and the insulating material applied with a trowel to approximately a half an inch thick.

"A more durable method of insulating the pans is to form an auxiliary pan from 20-gage sheet iron, making this auxiliary pan about ¾ in. larger at all points than the regular oil pan and supporting this pan to the crankcase by lugs usually four or six, depending upon the size of the engine and placing an asbestos type insulating material on the inside of the auxiliary pan. In making a more durable insulation cover for the valve cover plates, light-gage iron is formed and spot welded on to the original valve cover plates so that about a half inch of space exists between the original plates and the auxiliary plates. This space can be filled with an asbestos type insulating material.

"The above methods are our usual suggestion; however, the individual operating companies usually have ideas which may be better suited to their particular conditions, and they vary their method of insulation to suit their particular problems. The important thing in insulating is to keep the oil in the crankcase when under operation above 130 deg F. and below approximately 250 deg F. The insulation should be put on in such a way that when the cold operating periods no longer exist that it is not a major operation to remove the insulation from the pans so that normal operating conditions will exist."

Use Insulation Under Extreme Weather Conditions

by J. W. Basore
Manager, Lubricants and Fuels Dept.
Mid-Continent Petroleum Corp.

"We recommend insulation of the crankcase for fleets operating under extreme weather conditions and for stop and go winter driving. This is especially true if they are concerned with the life of their equipment and the performance of the oil, for no oil performs any better than the mechanical condition of the equipment and the manner in which the equipment operates will permit. In insulating the crankcase and valve cover compartments, an attempt is made to equalize temperatures. By having no cold spots in the motor, the vapors from combustion that get by the piston rings should be pulled out of the crankcase by the ventilating system. By having a cold spot in the engine, they will be condensed to a liquid, either water or gasoline, which causes the many ills as previously mentioned. The writer has seen cases where he has had to have installed a metal deflector between the fan and the engine so as, during the winter, to keep the cold blast of air from the fan from coming in contact with the motor. Internal combustion engines are heat engines, and it takes a lot of heat for them to perform satisfactorily. In addition, I have seen cases where removal of some, or even all, of the fan blades was necessary so as to deliberately make the motor run hotter. In most cases, the fan belt drives the generator; and in cases where this is not done, removal of the fan belt serves the same purpose."

Insulation Has a Doubtful Value

by Lester F. Barnes
Advertising Manager
Fram Corp.

"Crankcase insulation may in some cases be a help in increasing oil temperature, but it is doubtful if it is of much benefit in very cold weather when there is an insulating layer of thick oil formed on the inside of the oil pan. The insulation also tends to become oil soaked and loses its effectiveness."

Insulation May Help When Engines Are Overcooled

by H. S. Harris
Advertising Manager
Quaker State Oil Refining Corp.

"I don't believe we are in a position to say that we approve or disapprove of the practice. Personally, I do not see why crankcase insulation should be any improvement over several of the other methods used in various parts of the country purely as a means of starting truck engines when they are cold. Actually, from past experience, atmospheric temperature can have very little effect on temperature of the oil in the crankcase *after the engine reaches operating temperature.* It would seem to me that there are other factors more important than crankcase insulation because, if engine crankcase temperatures are low, it is primarily due to excessive cooling through the cooling system itself—and sometimes the ventilating system is inefficient. Briefly, we believe that engine over-cooling today is a greater problem, possibly, than over-heating.

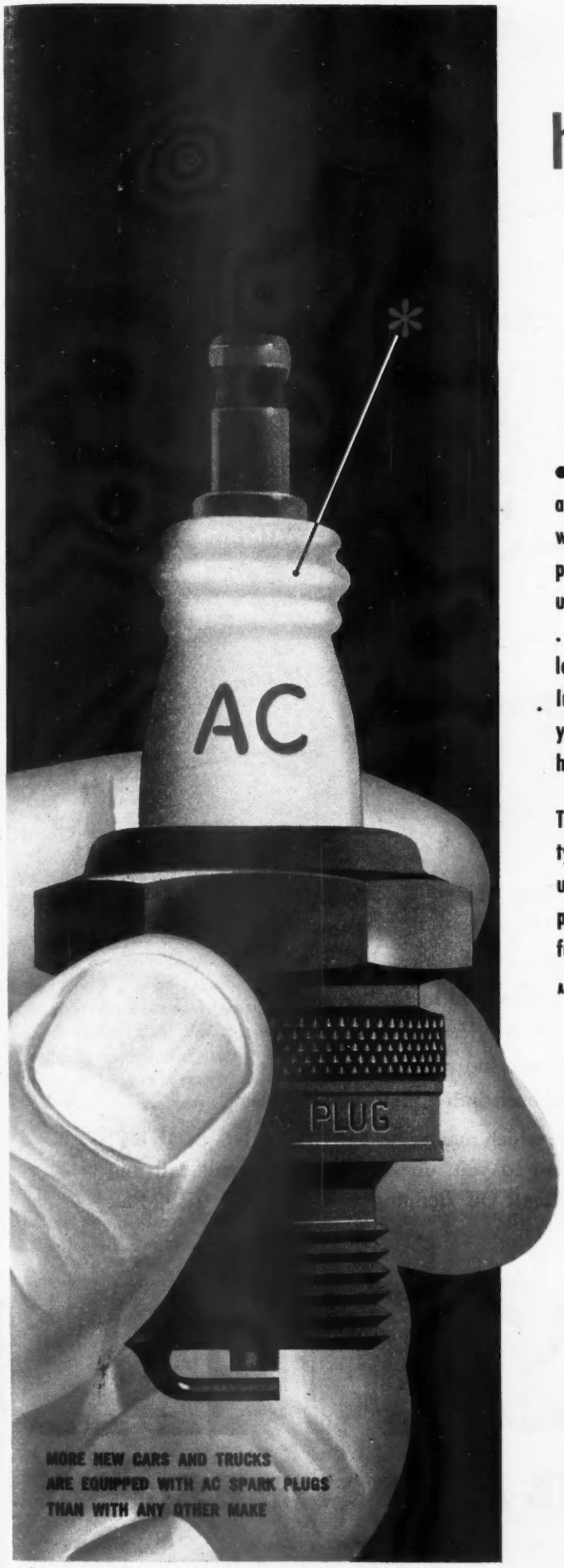
"About the only thing we say on the subject of crankcase insulation is that "considerable study of crankcase insulation, as well as insulation of overhead rocker-arm covers, valve compartment covers, etc., is indicating that insulation offers considerable benefit in minimizing blow-by contamination and sludge formation in engines which are over-cooled, either because of design or from intermittent operation."

Insulation Cuts Warm-Up Time

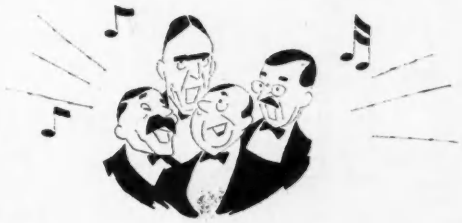
by W. G. Perriguey
Sales Engineering
Esso Standard Oil Co.

"We have not had occasion to make a specific investigation into the merits of crankcase insulation. Our information on the subject is based upon the opinions of fleet operators who have used such materials in an effort to better control engine oil temperatures. Such information leads us to believe that crankcase insulation is beneficial in reducing the time required to raise the crankcase oil temperature to a reasonable operating temperature. It also appears to be helpful in cases where vehicles are stored out of doors in maintaining a higher than ambient temperature in the crankcase oil during over night-storage. Our information also indicates that such insulation does not materially increase the maximum crankcase temperature. Consequently, year around use of the insulation does not appear to present overheating problems during the summer months.

"The prevalence or persistence of cold engine sludge accumulations, after more generally known steps such as radiator shielding, adequate thermostats, reasonable drain periods, adequate filter servicing, etc., have been taken, appears to be a useful guide as to whether crankcase and valve compartment insulation should be considered. Our information indicates that crankcase insulation is not too effective unless the other steps enumerated above are also taken."



harmony...



● **Harmony under the hood.** In your engines—or any others—today's commercial type AC Spark Plugs with patented Coralox Insulators *surpass all previous spark plugs in their ability to fire steadily under a very wide range of operating conditions . . . and to remain efficient through substantially longer life. It's the patented Coralox Insulator which produces this improvement. And you get it whether the engine is hot or cold, working hard or loafing.

This remarkable new AC development gives each type of plug a much wider Heat Range, and amazing uniformity of Heat Range. It also makes each plug stay clean longer, last longer, and fire the fuel much more efficiently.

AC SPARK PLUG DIVISION • GENERAL MOTORS CORPORATION

AC

SPARK PLUGS

***AC's patented processes make Coralox the finest insulator in spark plug history. Improved electrical insulation, no matter how high the temperature. Better heat conduction. Maximum resistance to heat shock. Less fouling. Harder, stronger, longer-lived.**

1844-1

The reports from fleet owners who have taken advantage of this plan give us reason to stick out our chests. They tell us that they are getting:

1. Superior performance from their equipment.
2. A minimum of maintenance and operating costs.
3. Reduction in lay-ups for service and repairs.
4. Increased efficiency of each individual unit of a fleet.
5. Longer conservation of each individual unit of a fleet.

In short, they are SAVING MONEY, which means they are MAKING MONEY! Upon request, and with no obligation to you, our representative will call and explain this plan. Write to Wolf's Head Oil Refining Co., Inc., Oil City, Pa.; New York 10, N. Y.

WOLF'S HEAD

MOTOR OIL AND LUBES

100% Pure Pennsylvania "Premium Grade"

Member, Penna. Grade Crude Oil Association

1788-1

NEW PERFORMANCE · NEW DEPENDABILITY · NEW SAFETY

... they're all yours in the

NEW DELUXE

WALKER

"Series 900"

8 MODELS
1½ to 50
tons
capacity

PORTABLE HYDRAULIC

JACKS

with the new projectile tank

● Few products in the field of hydraulic lifting equipment have so fine a background of performance, dependability, and safety as the new Deluxe Walker "Series 900" Portable Hydraulic Jacks. Backed by years of careful, constantly refining engineering, they have a continuing approach to true perfection. Years of manufacturing "Know-How" . . . precision production . . . inherent fine quality have been compressed into these fine hydraulic jacks.

The new "Projectile" tank—designed in the shape of a heavy armor piercing shell—withstands greater shock . . . distributes the weight of the load more evenly, more completely to the heavy base . . . resists damage from eccentric loading which every jack is subject to.

But the "Projectile" tank is not the only new feature that distinguishes the new Deluxe "Series 900." Cup leathers have been redesigned and improved . . . new tolerances and "quality controls" assure more positive packing . . . and in models of 5-ton capacity or more, the revolutionary new Walker "I. S. D." power cylinder assures longer service and finer performance.

• • •

Yes, these are great jacks — great not only in their finer precision manufacture, their rugged "can-take-it" construction, their smooth dependable operation—but great because the combination of all these outstanding characteristics create a dollar-for-dollar value that cannot be duplicated.

WALKER MANUFACTURING CO. OF WISCONSIN • RACINE, WISCONSIN

Walker Jacks, Lifts, Silencers, and Oil Filters

WALKER *leads in* JACKS

2034-1

DEPENDABLE

CHAMPION

SPARK PLUGS

PERFORMANCE

FOR OVER A QUARTER CENTURY

ECONOMY

THIS SPARK PLUG HAS LED

PERFORMANCE

ALL OTHERS IN FLEET SALES!

ECONOMY

THIS ACCEPTANCE MUST MEAN

IT HAS NO EQUAL

FOR PERFORMANCE AND ECONOMY

CHAMPION SPARK PLUG COMPANY, TOLEDO 1, OHIO

Listen to the CHAMPION ROLL CALL . . . Harry Wismer's fast sportscast every Friday night, over the ABC network

1844-1

Shop hints from FLEET SHOPS

$25 FOR THE BEST HINT PUBLISHED EACH MONTH • • •

$5 FOR ALL HINTS PUBLISHED EACH MONTH

$25 Hint of the Month ★

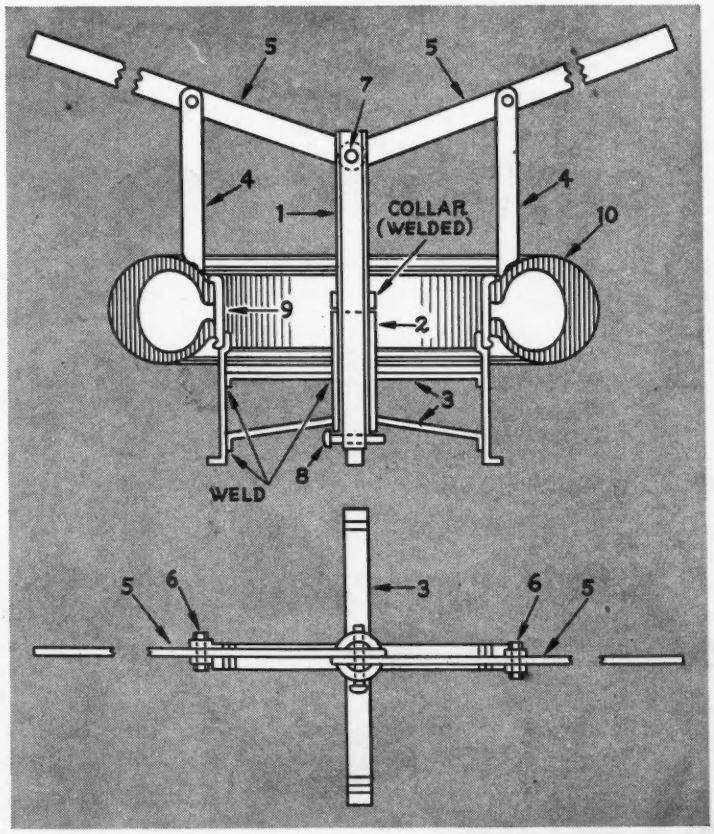
Tire Removing Tool

by Roland Brunette
Chair City Motor Express Co.
Sheboygan, Mich.

This tire removing tool, for tough ones, will handle any 20-in. rim on spoke or Budd type wheels. It is light in weight and doesn't have to be anchored to the floor.

Tire and rim are placed on the frame No. 3, and the pipe No. 1 is placed in pipe No. 2 and held by pin No. 8. Handles No. 5 are placed in the slot in the pipe No. 1 and held by pin No. 7. The bars No. 4 are placed on the tire next to the rim, and force is applied by one or two men at the ends of the levers, moving around the circumference of the tire each time.

The base is made up of four uprights fashioned from ¼ x 1-in. strap iron cut into 8-in. lengths. These pieces are bent to fit the rim as shown and are braced to the center pipe with strap irons. so that the rim can be fit securely over the base. The center plunger is a 1¾-in. pipe 18 in. long which fits into the 2-in. gas pipe base center. A collar is welded at the middle portion of the plunger to serve as a rest when the handles are up. The pin beneath the base acts as a fulcrum so that pressure is applied through the handles to the outriggers. Handles are made of ¼ x 1-in. strap iron 36 in. long. Distance from the center plunger joint to the outrigger mounting is 12 in. Outriggers are made of the same type strap iron and are 12 in. long, rounded at the tip to make a good contact with tire bead.



1. Tool Stand and Light

by Henry E. Fossman
Hales Corners, Wis.

This handy tool stand is useful when doing tune up jobs. It is made from discarded parts and costs little to put together, considering its extremely high usefulness in the shop.

The base is from an old stand. An old wheel or even a steering wheel will be just as good. A ¾-in. gas pipe is threaded into the base, and a collar with a winged nut adjustment is welded to the top. A 24-in. round plate rests on this collar so that it can be turned as desired. Into the upright pipe a smaller size pipe is set with a flood light and adjustment so that any area can be lighted. Advantage of this unit is that it can be wheeled to the job and set up for both a trouble light and tool holder.

(TURN TO PAGE 18, PLEASE)

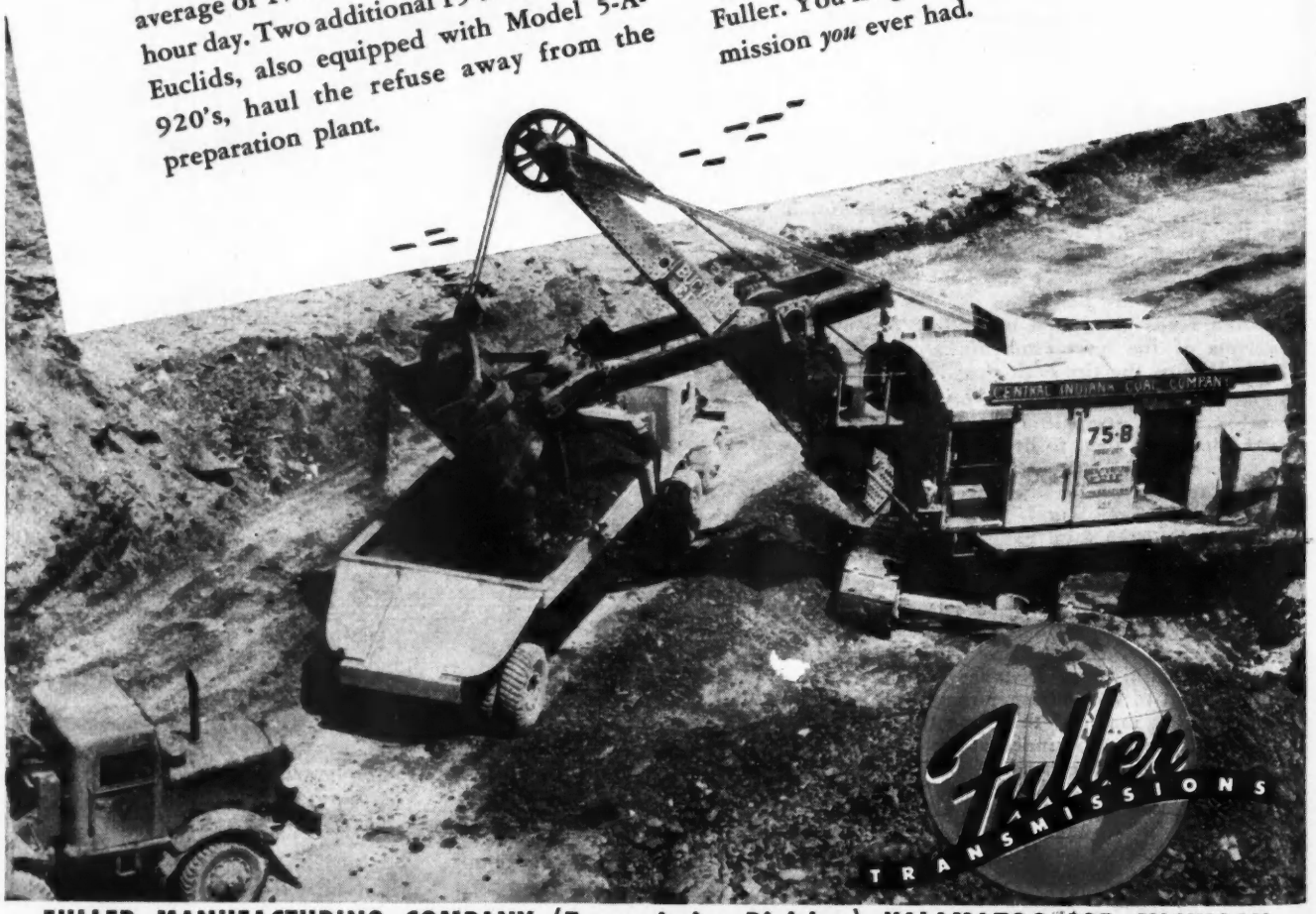
"Best Transmission we ever had..."

So says Pierce Wright, head mechanic at Central Indiana Coal Company's Maid Marian Mine, Odon, Indiana.

Mr. Wright's words of wisdom refer to Fuller 5-A-920 Transmissions in five of Maid Marian's eight Fuller-equipped 25-ton Euclid bottom dump trucks hauling raw coal from the pit to the tipple . . . an average of 17 to 18 round trips per seven-hour day. Two additional 15-ton rear dump Euclids, also equipped with Model 5-A-920's, haul the refuse away from the preparation plant.

Five forward speeds, an overdrive in fifth, and one reverse are provided by the Fuller's Model 5-A-920, which is designed for straight and tractor-type trucks utilizing engines up to 920 inches. The application of either two or three-speed Fuller auxiliaries provides the widest opportunity for transmission of power, gear splitting and maximum vehicle speeds.

For maximum economy in weight and space . . . for short, easy shifts, specify Fuller. You'll agree that it's the best transmission *you* ever had.



FULLER MANUFACTURING COMPANY (Transmission Division), KALAMAZOO 13F, MICHIGAN

Unit Drop Forge Division, Milwaukee 1, Wis. • WESTERN DISTRICT OFFICE (SALES & SERVICE—BOTH DIVISIONS), 1060 E. 11th Street, Oakland 6, Calif.

1930-1

ROADSIDE REPORT *by George Wheeler, Jr., President of Colonial Transfer Company. Ford Model F-7 shown has a G.T.W. rating of 35,000 lbs. as a tractor. G.V.W. rating is 19,000 lbs.*

"FORD has proven to be the low-maintenance truck for us!"

"WE CAN'T AFFORD breakdowns and high operational costs. That's why we like the 145-h.p. Ford F-7," reports George Wheeler, Jr. "The F-7 carries a large payload and is always dependable and economical to operate. Our drivers like it because of its smooth-riding cab, because it is easy to handle despite its size and because it has plenty of reserve power. For these same reasons we are using other Ford models. In day-in, day-out operation, Ford has proven to be the low-maintenance truck for us."

In terms of *Payload-Performance* the Ford BIG JOBS have no equal in their class. No other truck offers so much payload capacity in relation to chassis weight with as high a horsepower rating per gross ton. This means bigger payloads within legal load limits. It means faster, more profitable delivery of big loads. Ford's high *Payload-Performance* is evidence of Bonus Built construction. Each of over 150 Ford Truck models is Bonus Built... built extra strong to last longer.

***BONUS:** *"Something given in addition to what is usual or strictly due"—Webster*

FORD 1949 *Bonus* Built* TRUCKS 1959

BUILT STRONGER TO LAST LONGER

USING LATEST REGISTRATION DATA ON 6,106,000 TRUCKS, LIFE INSURANCE EXPERTS PROVE FORD TRUCKS LAST LONGER!

ONLY THE FORD BIG JOB

HAS ALL THESE FEATURES

- ★ New 145-h.p. Ford V-8 engine for top performance.
- ★ Ford concentric dual-throat carburetor for more power, more economy.
- ★ Big Ford power-operated hydraulic brakes; front 16-inch by 2¼-inch; rear 15-inch by 5-inch double cylinder on F-7, 16-inch by 5-inch double cylinder on F-8. Air brakes also available for F-8.
- ★ New heavy duty 5-speed transmissions—overdrive or direct-in-fifth—for operating flexibility.
- ★ Ford Super Quadrax single speed axles; two-speed axle available in Model F-8.
- ★ Large diameter (10-inch) wheel bolt circle with 8 studs to allow for extra-strong hub construction.
- ★ Million Dollar Cab with Ford Level Action suspension for greater driving comfort.
- ★ Nationwide service from over 6,400 Ford Dealers.
- ★ Ford Bonus Built construction for long truck life.

Gross Vehicle Weight Ratings: F-8 up to 21,500 lbs., F-7 up to 19,000 lbs. Gross Combination ratings: F-8 up to 39,000 lbs., F-7 up to 35,000 lbs.

3811-1

Shop Hints from Fleet Shops (Continued from page 15)

2. Chevrolet Brake Inspection

by J. N. Pierce
Los Angeles, Cal.
General Paint Corp.

Chevrolet 1½ and 2-ton trucks do not have a brake inspection hole on the rear backing plates, and it is sometimes inaccurate to check front wheels to determine whether others need relining.

To eliminate time and expense I drill a 5/16-in. hole in the front section of the backing plate in line with the front brake shoe. Now I can tell at a glance whether shoes need relining.

3. File and Driver Rack

by Frank P. Coulomb
Inglewood, Cal.

A 1-in. x 2½-in. strip of wood fastened to the side of a drawer will provide a handy place to keep screwdrivers, punches and files. The strip is drilled so the tools hang from the handles and are easily found. When the drawer is shut, they cannot be removed. It will be necessary to provide a space adjacent to the drawer so the added rack can be slid in and out with drawer.

4. Drill Extension

by Adolph Garbrecht
Marinette County Highway Dept.
Peshtigo, Wis.

Here is a tool built in our shop, and it is very useful when extra long drills are needed. One tapered drill sleeve, with a ½-in. nut welded on the top end and a length of ½-in. shaft with a threaded end can be used. The nut is screwed to the shaft and used as an extension to drill in out of way places. In this way any size drill can be changed to a long shank tool.

5. Stencil Removal

by Robert H. Nuhn
Elyria Truck and Implement Co.
Elyria, Ohio

Our problem was removing stencils from trucks and tractors without damaging the paint job.

We found that by applying warm vinegar to the stencil long enough to cut the glue, you could peel the old stencil off with your fingers without damage to paint jobs.

6. Tire Inflation

by Manuel Meza
Victory Transfer Co.
Laredo, Tex.

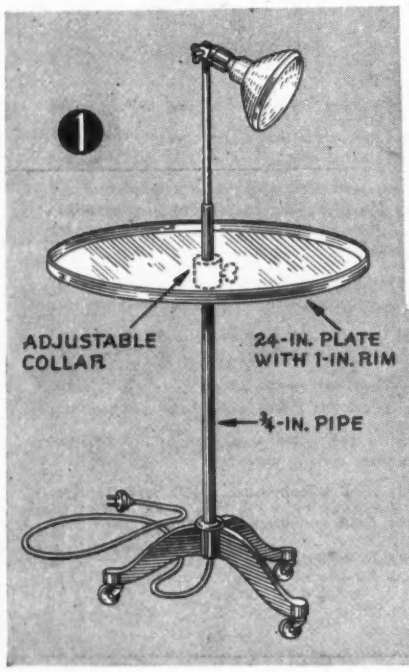
To inflate tires on trucks or tractors carrying air compressors for brake systems, attach a ¼-in. pipe fitting to the main outlet coming from the compressor; weld a piece of rod to a ¼-in. pipe cap so it can easily be handled when plugged. Connect air hose when needed.

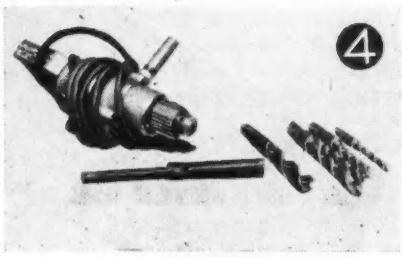
7. Cleaning Carburetors

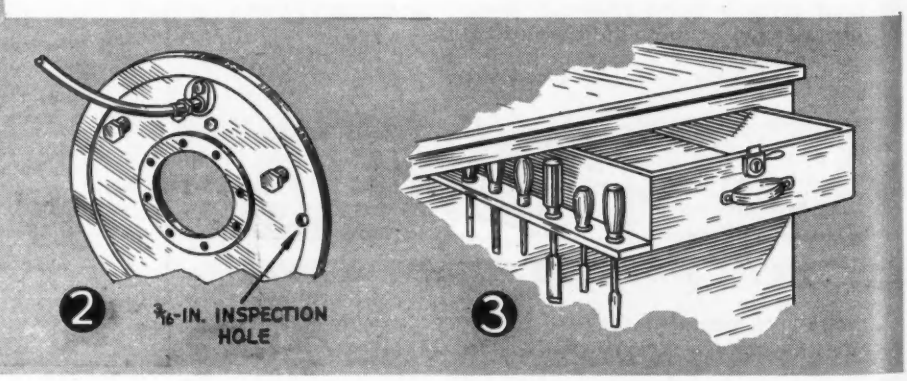
by Lynn F. Snoddy
Andress-Hanna, Inc.
Shreveport, La.

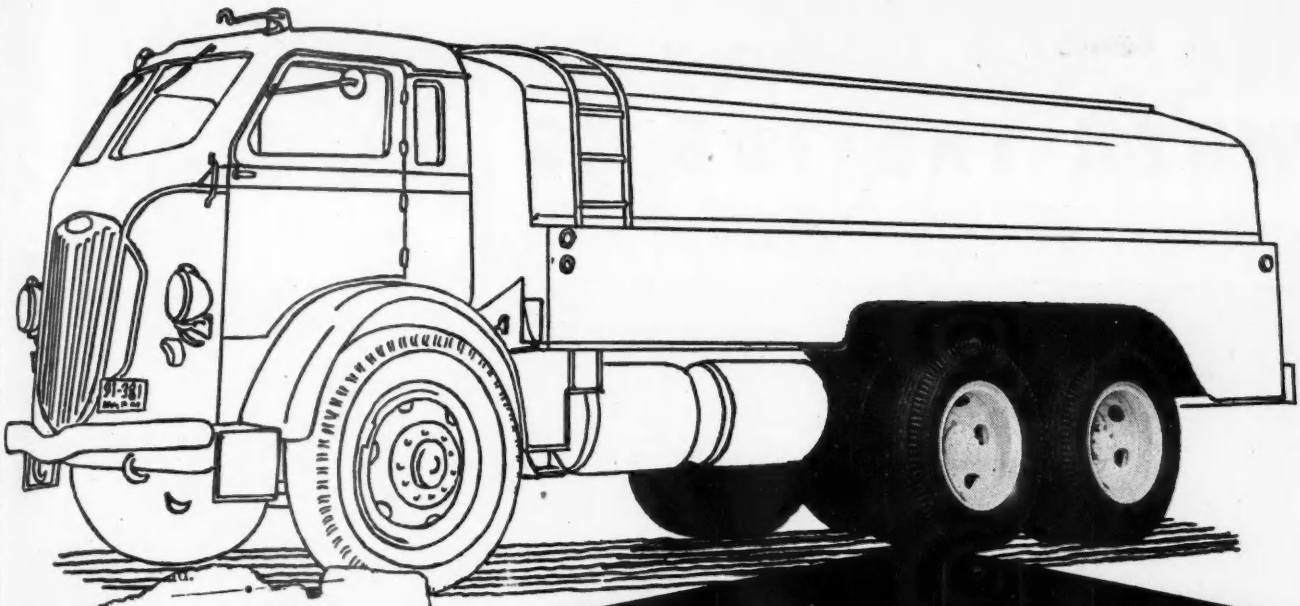
The presence of water for any length of time in die cast or "pot metal" carburetors sets up a chemical action which builds up deposits of corrosion that often ruins a carburetor. It is often possible to salvage an otherwise good carburetor if this deposit can be removed.

Here's how I often do this: Blow and scrape as much of the corrosion as possible, then plug all threaded holes, using discarded jets and plugs for this purpose. Place the carburetor on the floor and fill to the height of the corrosion with a mild solution of sulphuric acid (battery acid). The stronger the acid the quicker it will disolve the corrosion, but a strong solution must be watched closely to prevent damage to the carburetor, a strength that will not quite float the hydrometer will clean an average float chamber in about twenty minutes. Rinse free of acid with water and remove the old plugs after which the parts can be put in the carburetor cleaner for further cleansing.









Truck Fines Up Sharply

Overloading Convictions Rise 275% as Result of State Drive

Trenton Bureau.

TRENTON — Motor vehicle inspectors are putting the heat on truckers who overload their machines, with the result that there has been a 275 per cent increase in convictions for that offense so far this year over the first eight months

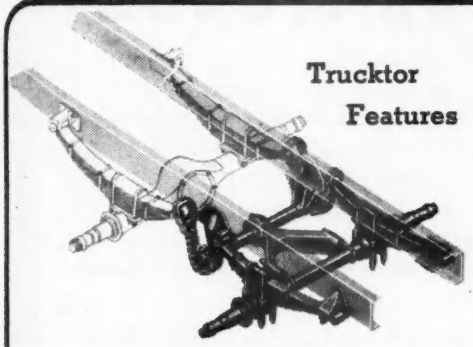
TRUCKTORED 6-WHEELERS

mean

Profitable Payloads

instead of

Overload Penalties



Trucktor Features

1. Carry up to double the payloads
2. Greater safety
3. Low operating costs
4. Low maintenance costs
5. Low first cost
6. Less dead weight
7. Longer vehicle life
8. Less damage to fragile loads

YOU can scarcely pick up a newspaper these days without reading about heavy fines assessed against one or more truckers for overloading. Yet it is so easy to prevent these utterly unnecessary losses. 6-wheeler conversions legally allow operators substantial additional payload. In some states the maximum is almost double that for a 4-wheeler. And the 6-wheeler is safer, more maneuverable and easier on the cargo. Send for further information.

THE TRUCKTOR CORPORATION
156 Wilson Avenue, Newark 5, N. J.

Safety **IS NO ACCIDENT** ***Trucktor*** **AXLES**

★ ***ALSO MANUFACTURERS OF TRUCKTOR SINGLE AND TANDEM TRAILER AXLES*** ★

3824-1

WHEN THE JOB IS *Tough*

ROSS BRINGS EASE . . . AND ECONOMY

EVERY TOUGH steering job becomes easier, safer and more economical with Ross. Heavy, cumbersome loads are handled with complete satisfaction. Under any condition of road, load, or weather, rely on Ross.

The Ross policy of incorporating advancements in design as they are proved by exhaustive tests has resulted in many recent improvements. Current Ross models have:

(1) *Increased mechanical reduction* . . . (2) *More compactness* . . . (3) *Reduction in weight* . . . (4) *Greater arm angular-travel* . . . (5) *Improved metallurgy* . . . (6) *Increased efficiency.*

Throughout 42 years of leadership in this industry, Ross gears have been distinguished for long life, simplicity of adjustment and maintenance of long-recognized qualities of safety, stability and performance. We invite discussion of any steering problem.

Ross

Cam & Lever ***STEERING***

ROSS GEAR AND TOOL COMPANY • LAFAYETTE, INDIANA

3820-1

Marmon-Herrington

ALL-WHEEL-DRIVE

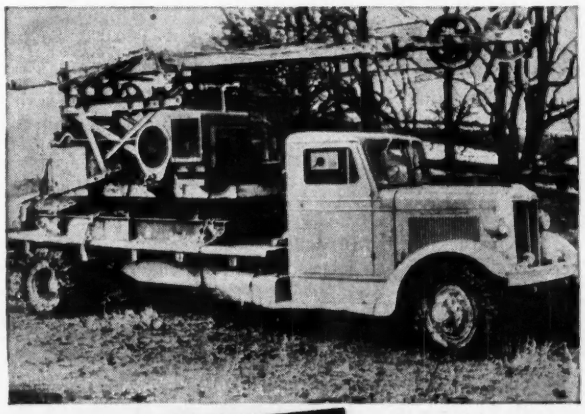
wherever the going is tough

There are literally hundreds of tough trucking jobs that trucks of conventional drive can't handle. Lack of tractive power is the big reason.

Marmon-Herrington *All-Wheel-Drive* Trucks are the made-to-order answer. Live power and traction in all wheels—*front wheels pulling, rear wheels pushing*—gives them the sure-footed tractive power of crawler tractors, plus truly amazing speed and maneuverability. Here are trucks that carry on where those of conventional drive stop—trucks capable of transporting peak payloads through deep mud, sand and snow, up steep hills and mountain grades—speedily, easily, economically.

Marmon-Herrington offers twenty-two *All-Wheel-Drive* models in all. Four are heavy-duty models of the company's own manufacture; the balance are standard Ford models converted to *All-Wheel-Drive* by Marmon-Herrington. Wheelbases range from 110 inches to 220 inches—gross vehicle weights from 5,300 pounds to 42,000 pounds. There are 7 great engines, Diesel and gasoline—from 4 to 10 forward speeds, 1 to 4 reverse.

For a demonstration of almost unbelievable performance-ability, see your Marmon-Herrington *All-Wheel-Drive* Truck dealer. There's one near you.



MARMON-HERRINGTON COMPANY, INCORPORATED

MARMON-HERRINGTON

Indianapolis 7, Indiana

3811-1

CCJ QUIZ

By G. W. Bahl

Don't be annoyed by the repetition of "trucking industry" in the following quiz—we're justly proud of this American enterprise which originally started with 700 registrations in 1904. Since then it has mushroomed to a new high of over 7,000,000 and truly deserves to be called the "Economic Giant" of the nation. Try to answer at least seven questions correctly. Interesting answers to those you miss are on page 308.

1. The trucking industry is the largest single producer of personnel, except for agriculture, hiring over 5,000,000 persons. Check how many times this exceeds the number employed by the entire rail interests.

( ) 1 ( ) 5
( ) 3 ( ) 7

2. During 1948 the trucking industry paid $1,032,000,000 in special high-way use taxes—an amount equal to 1 1/3 times the total spent by all the states for new roads in 1946. How many miles were constructed?

( ) 26,000 miles ( ) 66,000 miles
( ) 46,000 " ( ) 86,000 "

3. The trucking industry consumes enough gasoline yearly to fill five stacks of one-gallon cans reaching from the earth to the moon. In gallons, this would be

( ) 3,800,000,000 ( ) 7,800,000,000
( ) 5,800,000,000 ( ) 9,800,000,000

The trucking industry performs 80,000,000,000 ton-miles of transportation annually. In trips to the Sun, this would equal

( ) 80 trips ( ) 120 trips
( ) 100 " ( ) 140 "

5. The lumber used by the trucking industry in the yearly output of new trucks and trailers would build a boardwalk 6 foot wide from New York to Los Angeles. This represents over

( ) 58,000,000 board feet ( ) 98,000,000 board feet
( ) 78,000,000 " " ( ) 118,000,000 " "

6. The trucking industry requires sufficient cotton each year to provide a new dress for every housewife in the country. In bales, this would be

( ) 95,000 ( ) 125,000
( ) 115,000 ( ) 145,000

7. The trucking industry also needs enough aluminum each year to give a new pan to every family in the United States. The amount required is over

( ) 5,000,000 lb. ( ) 15,000,000 lb.
( ) 10,000,000 " ( ) 20,000,000 "

8. Glass, too, is vital and the trucking industry uses sufficient annually to completely enclose the ball parks of all major leagues to the height of the Washington Monument. In square feet this would equal

( ) 12,000,000 ( ) 20,000,000
( ) 16,000,000 ( ) 24,000,000

BRAIN TEASERS

By Boris Randolph

Enigma

Each line below refers to a letter you have to find. To find the letter study each pair of words carefully.

My first is in CARGO, yet missing from LOAD.
My second's in HIGHWAY and also in ROAD.
My third is in FORWARD as much as in REAR.
My fourth is in BRAKE although absent from GEAR.
My fifth's not in GASOLINE, still, it's in FUEL.
My sixth is in PLIERS, and yet, not in TOOL.
My seventh's in GREASE a bit more than in LUBE.
My eighth is in TIRE the same as in TUBE.
My ninth is in PISTON as well as in JOINTS.
My tenth, while in SPARK, is yet nowhere in POINTS.
Together I spell when the whole thing is done,
An item without which a truck cannot run.

Name, Please

What truck make has the name of a

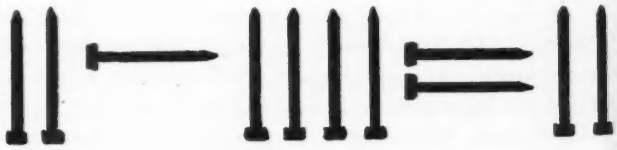
1. Color
2. City in Wisconsin
3. Arrow
4. Two-family house
5. Cunning ruse

What trailer make has the name of a

6. Dog
7. Orchestra leader
8. State
9. Half-wild horse
10. Road

Two Minus Four

Lay out eleven nails as follows:



This reads: 2 minus 4 equals 2, a definitely wrong equation. Now change the position of just one nail to form an equation that is absolutely correct.

Colored Boxes

A truck is carrying a load of boxes answering to the following description: Each side of each box is one of three colors. Each box is a two-color job. There are as many boxes as there are ways of coloring them. How many boxes is the truck carrying?

Answers on page 308

Plenty tough to balance!

Brakes, too, are hard to balance . . . with only one type of lining!

Different shoes, even in the same type brake, do different work, because forward and reverse shoes don't carry the same share of the load, and need different types of blocks. And different *types* of brakes vary widely in brake action.

To keep all these factors in balance Grey-Rock uses several different types of friction material. They work together for ***balanced*** brake action!

Results: uniform wear, longer wear, lower maintenance costs. And smoother, safer stops! See your Grey-Rock jobber today for balanced linings. He has the right combinations, factory-combined and packaged for your particular vehicles. In unusual cases, he'll arrange an on-the-spot survey by Grey-Rock factory experts.

For linings ½" or less in thickness, use GREY-ROCK BALANCED TRUCKSETS . . . factory-combined and accurately drilled for popular light and medium trucks.

Grey-Rock BLOCKS for Heavy Duty Brakes

BOLT-ON BLOCKS for heavy-duty buses, trucks, and trailers
BALANCED TRUCKSETS for light and medium trucks
BALANCED BRAKSETS for passenger cars (riveted or bonded)
STANDARD WYRBAC SETS of Grey-Rock quality
VEE-LOK, Molded and Semi-Metallic CLUTCH FACINGS
FAN BELTS
RADIATOR HOSE

GREY-ROCK DIVISION
of Raybestos-Manhattan, Inc., Manheim, Pa.

1945-1

RAYBESTOS-MANHATTAN, INC., Manufacturers of Brake Linings • Brake Blocks • Clutch Facings • Fan Belts • Radiator Hose • Mechanical Rubber Products • Rubber Covered Equipment • Asbestos Textiles • Packings • Powdered Metal Products • Abrasive and Diamond Wheels • Bowling Balls.

H. D. HORTON, President
American Trucking Associations, Inc.

Congratulates

Individuals Responsible for Safety Records in Winning Fleets Named by A. T. A.

First Place Winners

WILLIAM A. MISCHE
Consolidated Dairy Products, Inc.
LONG ISLAND CITY 1, NEW YORK

C. A. PINNELL
Ewing-Von Allmen Dairy Co.
LOUISVILLE, KENTUCKY

R. FRANK FELTS
Felts-Willett Transport Corp.
GALAX, VIRGINIA

J. W. NELSON
Kansas Transport Co., Inc.
McPHERSON, KANSAS

JOHN R. ELDRIDGE
Motor Truck Equipment Co.
HARRISBURG, PENNSYLVANIA

DON ROBERTS
Carr Consolidated Biscuit Co.
WILKES-BARRE, PENNSYLVANIA

H. D. SMITH
Walker Hauling Co.
ATLANTA, GEORGIA

BEEMAN CARRELL
Red Ball Motor Freight, Inc.
DALLAS, TEXAS

L. I. NICHOLAS
Nicholas Petroleum Transport Service
NEWARK 5, NEW JERSEY

HARRY E. GRIMES
Harry E. Grimes Transports
ARKANSAS CITY, KANSAS

J. E. ZING
L. L. Majure Transport
MERIDIAN, MISSISSIPPI

W. J. RELLAFORD
Asbury Transportation Co.
LOS ANGELES, CALIFORNIA

First Place Winners
(CONTINUED)

C. J. HARGLEROAD
Hargleroad Van & Storage Co.
HASTINGS, NEBRASKA

JOHN D. WATSKER
Alton Box Board Co.
ALTON, ILLINOIS

HAROLD H. GOFF
Mistletoe Express Service
OKLAHOMA CITY, OKLAHOMA

RINER AKINS
Huber and Huber
LOUISVILLE, KENTUCKY

Second Place Winners

D. H. PUCKETT
City Transfer Co., Ltd.
HONOLULU, T. H.

HAROLD O. ALLEN
Osborne Trucking Co.
VINCENNES, INDIANA

W. J. RELLAFORD
Asbury Systems
LOS ANGELES, CALIFORNIA

AIMIE BOURGALT
Aimie Bourgalt
WOONSOCKET, RHODE ISLAND

SHELDON LEVINE
New England Carrier Corp.
PATERSON, NEW JERSEY

ALBERT L. HAUCK
Silver Fleet Motor Express, Inc.
LOUISVILLE 2, KENTUCKY

H. M. PRATER
Missouri Pacific Freight Transport Co.
HOUSTON, TEXAS

JOHN W. JACOBSON
F. J. Boutell Driveaway Co., Inc.
FLINT 3, MICHIGAN

MARK E. FOREMAN
Foreman, Inc.
EXETER, NEBRASKA

GLEN S. KEENEY
Blue Valley Transfer Co.
KANSAS CITY, MISSOURI

A. E. ODOMS
Silver Eagle Company
PORTLAND 10, OREGON

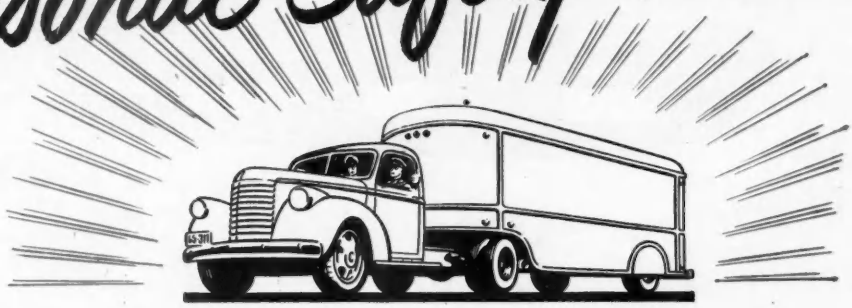
W. E. McCAULEY
Perawell Trucking Co.
TRENTON 9, NEW JERSEY

S. E. PRATZ, JR.
Heldt Bros. Trucks
ALICE, TEXAS

H. C. DANIEL
York Transport Co.
HOUSTON 15, TEXAS

AUTO-LITE

Winners of AUTO-LITE Personal Safety Awards



"SAFETY IS important to the whole industry," says H. D. Horton, President, American Trucking Associations, "and it isn't just a matter of protecting human life, vital as that is. The public relations and efficiency benefits to the trucking industry from increased safety can hardly be over-emphasized. So it is a pleasure to congratulate the men who have personally played a vital role in this valuable effort."

In providing the awards for the men responsible for safety in the winning fleets for 1949, Auto-Lite wishes to remind fleet operators everywhere the A.T.A. 1949-50 Truck Safety Contest is now open to every fleet . . . membership in the Associations is not required. You can get full information from the American Trucking Associations or

THE ELECTRIC AUTO-LITE COMPANY
Merchandising Division
Toronto, Ontario — Toledo 1, Ohio

Enroll NOW for 1949-50 Contest

You are invited to use Auto-Lite's safety awards to help stimulate a safety drive in your fleet in connection with the A.T.A. Truck Safety Contest. Sixteen classes—both local and long distance—give every fleet a chance to win. Write the American Trucking Associations, your State Trucking Association office or The Electric Auto-Lite Company, Merchandising Division, Toledo 1, Ohio.

SPARK PLUGS

1-1188 1844-2

Even the instruments are designed for HEAVY-DUTY

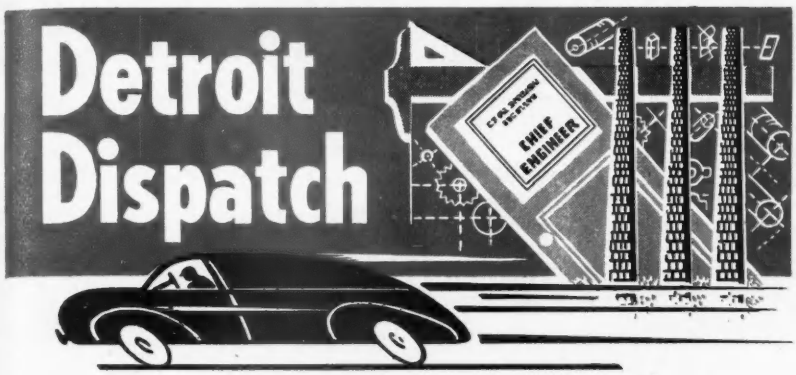
No passenger-car instruments for Autocar! We pay premium prices for labor and materials, and install a panel of *heavy-duty* instruments designed to withstand the strains and stresses of *heavy-duty* hauling.

A panel of heavy-duty instruments doesn't make a heavy-duty truck, but it is an indication of the superb engineering that goes into every detail of Autocar construction. That same care and meticulous planning are applied to engine, transmission, chassis and axles—the result being a rugged, dependable truck capable of transporting profitable pay-loads long distances at the speed of traffic . . . and at low cost per ton-mile.

AUTOCAR TRUCKS

They cost less, because they do more work

The Autocar Company, Ardmore, Pa.
Established 1897 • Factory Branches and Distributors from Coast to Coast



by LEONARD WESTRATE
CCJ Detroit News Editor

Ford Offers 110 HP Six . . . GM Dip-Coats Mufflers . . . Chevrolet to Extend Bonded Linings . . . IHC Goes to Valve-In-Head . . . FTC May Upset Discounts . . . Year's Truck Output Set at Million

New Ford 110-Hp Six

Ford will start production early in December of a new engine to be offered in its F-6 truck. It will be a 254 cu. in. six-cylinder job developing 110 brake horsepower and 212 ft-lb of torque. Trucks powered by the new engine also will be equipped with a new four-speed syncromesh transmission.

GM Muffler Progress

Longer muffler life at lower cost may result from experimental work at General Motors Research Laboratories. The engineers there have developed a method of dip-coating completely formed steel parts with a thin coating of aluminum. GMC Truck & Coach Div. has tested mufflers and tailpipes of the aluminum dipped type and find that they last three times as long as regular untreated steel mufflers. Although cost is more, it is not as high as that of corrosion resistant mufflers made from steel with an overlay of aluminum sheet. The dipped mufflers also have the advantage of being coated inside and out. The biggest problem is to get suppliers to install the necessary equipment to perform the aluminum dipping operation.

Torque Converter Delayed

Plans by one large truck manufacturer to install a torque converter on a door-to-door delivery truck (CCJ, Sept., p. 27) have been delayed. Latest information indicates that the automatic drive will not be offered until sometime next year, probably March or April.

More Bonded Brakes

Watch for Chevrolet to extend bonded brake linings through its entire truck line before too long. The company already uses bonded linings on models up to and including one ton. Other companies may use bonded brakes if and when brake suppliers install the necessary manufacturing equipment. Both Chevrolet and Dodge manufacture their own bonded brakes at present. A new process which greatly speeds up curing and reduces the amount of equipment required has been offered to manufacturers and may speed the adoption of the bonded linings through the rest of the industry.

IHC Goes Valve-In-Head

An authoritative report says that when International Harvester announces its models before the end of this year all engines in the new line will be of valve-in-head type. The move emphasizes the shift of the industry to overhead valve engine in line with the trend toward higher compressions.

RR Unions Join Lobbies

Railroad unions are joining the pressure campaign against the trucking industry. They are planning to lobby in state legislatures for laws which would limit transportation by highway trucks of "excessively" large amounts of gasoline and other explosive material. It also is reported that the unions will demand much stricter enforcement of state laws against overloading of trucks.

FTC May Upset Discounts

Fleet suppliers who buy truck tires in large quantities at favorable discounts may be affected by a proposed FTC ruling. The proposed regulation would fix a maximum of 20,000 lb as the amount on which quantity discounts would be allowed by the manufacturer to the dealer. The ruling would apply only to replacement tires and tubes. Upon the complaint of small business, FTC says that it found a difference of 38.5 per cent between the smallest and the largest dealers in their buying price from the manufacturer. If the large quantity discounts were to be eliminated, it would narrow the spread between the large volume retailer's cost and the list price thereby reducing the discount to fleet buyers. Interested parties have until Nov. 18 to file objections with FTC.

Bigger Tandem Spread

One of the larger trailer manufacturers is doing some experimental work in regard to axle spacing to take advantage of weight laws in certain states. The principle idea is to move the tandem axles further apart which would permit hauling heavier loads.

Million Trucks in the Bag

Truck production is certain to go over a million units this year despite forecasts a few months ago it would do well to reach that figure. Up to Oct. 15, total production stood at about 950,000 trucks leaving about 2½ weeks of normal week production to reach the million mark. Manufacturers generally were thought to have enough steel to run through October and unless the industry should close down tight for the rest of the year, a highly unlikely prospect, the total should go to somewhere in the neighborhood of 1.1 million for 1949. A year ago, by Oct. 15 the industry had turned out 1,108,793 units.

Sales also were lagging considerably behind last year for the first eight months of 1949, although there was a definite upward trend in August and September. For the first eight months of this year, factory sales stood at 711,663 or nearly 86,000 units behind the same time a year ago. During the last four months of this year the industry would be required to average only 73,000 sales a month to exceed a sales market in this country of 1 million units. It should be easy to maintain such an average unless there is a prolonged stoppage caused by strikes, because the lowest month so far this year was May, with more than 75,000, and sales have been running consistently between 85,000 and 95,000 a month.

Motor Freight Line:
"We have cut our motor maintenance costs to a considerable extent and seldom find it necessary to resleeve or rebore a block under 250,000 miles."

Large City Bus Line:
"One of our coaches, with GMC 671 Diesel motor, had Ramco 10-Up Rings installed 2,000 miles ago. We find no appreciable oil consumption."

Taxi Cab Fleet:
"Installed Ramco 10-Up Rings in a Chevy which was using 9 to 12 quarts of oil per week at 68,000 miles. This motor now has 94,081 miles and when checking the oil after 2,000 miles, we always find that it is still at the 'Full' mark."

Chevrolet Tractor User:
"We installed Ramco 10-Up Rings in a Chevrolet tractor when it had 54,295 miles on it and used 4 quarts of oil every 1,000 miles. Now, after 62,890 miles with 10-Ups, it uses no oil between changes."

Automobile Transport Fleet:
"Now operating our trucks to and from Detroit with the lowest oil consumption and best gas mileage we have ever known."

Baking Company Fleet:
"Tried various makes of expander-type rings without success. Now have 23 sets of Ramco 10-Ups installed; averaging 200 miles per quart of oil on start-and-stop, and gas mileage has increased."

Fleet of Dodge Trucks:
"Put in 10-Ups at 100,000 miles; never use any oil on 1,000 mile change. Truck now has 111,000 miles and still uses no oil."

10 Years of Reports Like These

. . . Proof Positive that RAMCO 10-Up Rings Cut Fleet Maintenance Costs . . . Increase Gas and Oil Mileage!

For over 10 years, reports like these have come from operators of bus, truck and tractor fleets. Ramco 10-Up Rings of heavy-duty design have proven beyond question, the economy of RE-POWERING by the Ramco Method.

Ramco 10-Up Rings revise the old ideas about expander-type rings and re-boring. As shown by the design illustrations below, Ramco 10-Up Rings do not compensate for wear by the use of excessive pressures. The need for such wear-causing methods is eliminated by patented Ramco Ring construction which makes it possible to control oil and blow-by through piston stabilization alone.

A Ramco Representative will gladly give you complete details and arrange for a test installation. Write: Fleet Division, Ramsey Corporation, 3710 Forest Park Blvd., St. Louis, Missouri.

RAMCO 10 up
HEAVY-DUTY PISTON RINGS
. . ESPECIALLY DESIGNED FOR FLEET INSTALLATIONS

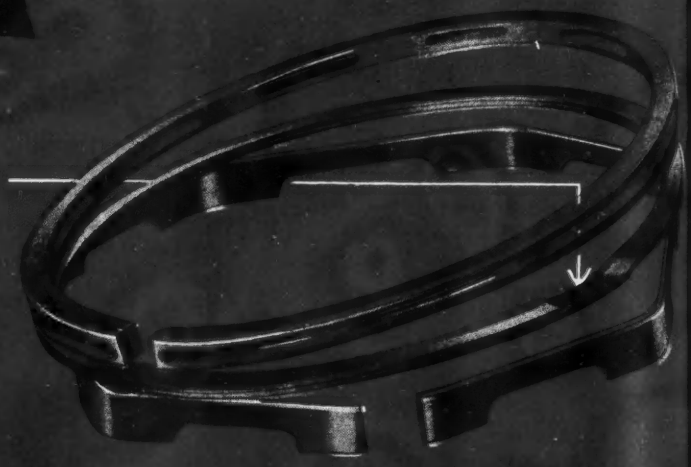
1842-1

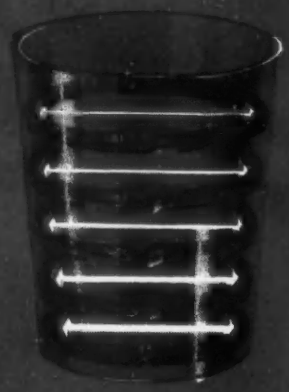
R-3416-FO

Copyright 1949 by Ramsey Corporation

These are important reasons for Fleet Operators' Success with RAMCO 10-Up Heavy-Duty Rings!

SPIRO-SEAL the CONTINUOUS STEEL RING
"Bridges-the-Gap" to seal against blow-by. SPIRO-SEAL automatically adjusts to tapered cylinders. Never exerts harsh pressures! It maintains power in badly worn cylinders or in those in fair condition at all times because it is GAPLESS!





ALTERNATING PRESSURE ACTION
Provides EXTRA PRESSURE on the downstroke, where it is required to control oil and blow-by . . . and LOWER PRESSURE on the upstroke, where it is necessary for proper lubrication. The drinking glass illustrates the principle.

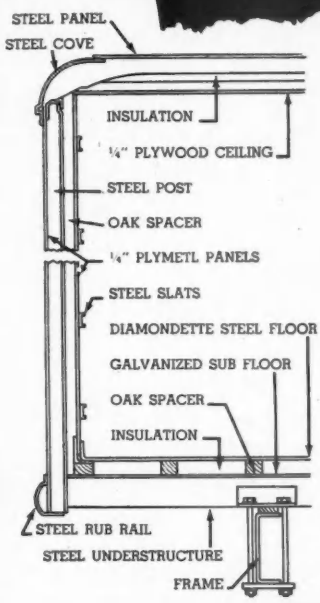
EXCLUSIVE "DOUBLE-LIFE" PRINCIPLE
First Life: During the break-in period, the inner ring exerts its gentle pressure ONLY on the cast-iron oil ring. The "endless" Spiro-Seal Ring functions under its own easy tension, adapting to the cylinder's shape.

Second Life: When wear occurs, the inner ring contacts BOTH the cast-iron ring and the Spiro-Seal ring with a gentle pressure that compensates for wear. The bearing surfaces thus retain full contact with the cylinder wall to seal against blow-by and properly control lubrication.

CHOOSE *Plymetl*...

for truck bodies

Operators report it LASTS LONGER



If you are a body builder or fleet operator interested in sound economy, you'll be interested in this:

"We have found this material to be very satisfactory and have encouraged its use with the dairy industry generally. The reaction has been unusual in that ***most fleet operators are convinced that Haskelite Plymetl will outlast any other type of panel or construction*** they have used.

-excerpt from a letter written by
S. A. Berger, Vice-President
Atlas Body Corporation, Phila.

Diagram of construction used by Atlas Body Corp. for Sheffield Farms of New York. Finished truck illustrated.

And here are two cases that demonstrate the serviceability of Plymetl

(1) A Plymetl panelled truck of a well-known candy manufacturer, travelled 700,000 miles in six years and outlasted the four new chassis used in this period.

(2) A New York food distributor writes "Our Experience has proved that Plymetl is superior to other materials in many ways. Better appearance, ***longer life,*** light weight, lower maintenance costs . . . "

These are the facts, presented by builders and users, that prove Plymetl the best buy for the truck operators' dollar. Smooth, flat, ripple-free; impact and vibration resistant . . . Plymetl makes a finer looking, longer lasting body. Get all the facts on Plymetl. ***Write for the new Plymetl Bulletin.***

® **HASKELITE** *structural materials for men who build better*

HASKELITE MANUFACTURING CORPORATION Dept. TC Grand Rapids 2, Mich.

New York Chicago Detroit Philadelphia St. Louis

Canada: Railway & Power Engineering Corporation, Ltd.

1471-1

by GENE HARDY

CCJ Washington Correspondent

Trucks Figure High in Arms Program . . . Report Ready on Federal Transportation Policies . . . Federal Vehicle Taxes Exceed Expenditures by a Billion . . . Carriers Get Mobile Radio Licenses

Trucks for Europe

Military trucks, prime movers, trailers, and spare parts will loom large in the recently-approved $1.3 billion program of arms aid for Western Europe and other nations friendly to the United States. At this time, however, it is impossible to tell exactly what quantities of automotive equipment will be shipped.

For example, while initial appropriation requests indicated $327 million for vehicles and $100 million for spare parts, it has not yet been determined how much of this will come from reserve stocks of the Army. Repaired material from reserve stocks will figure in the program. Funds for this material will be used by the Army to replace the reserve stocks with new equipment. There will also be substantial new procurement for direct shipment overseas.

Automotive vehicles are also certain to be shipped without many extras. During hearings on the appropriation, several members of Congress warned that gadgets not necessary for national defense purposes would not be tolerated.

Commerce Study On Time

The Commerce Dept.'s report on its survey of Federal transportation policies will be delivered to President Truman by the Dec. 1 deadline set by Mr. Truman when he requested that the job be undertaken. Under the direction of Ralph Hetzel, Commerce Dept. officials have been assembling information from all agencies concerned with transportation problems.

While fears have been expressed that the report might contain recommendations relating to transportation subsidies and eventual nationalization of transportation, it is not expected that these points will be a subject of the document.

Senate Study Progress

All-time collections of federal motor vehicle taxes have exceeded federal highway expenditures by slightly over $1 billion. During the period 1940-1948, highway users paid $3 billion more in Federal, state and local motor vehicle taxes than was expended on the highways. These are two of the principal statements of fact contained in a progress report from Sen. Myers, Dem., Pa., chairman of the Senate Commerce Subcommittee which is investigating domestic land transportation.

Sen. Myers also announced that the first, or fact-finding, phase of the investigation has been almost completed. The second phase, scheduled to get underway next January, will consist of public hearings in which representatives of transportation studies, of trade associations, shippers, and of various government agencies will appear.

Sen. Myers pointed out that the large expenditures of public funds for the development of various kinds of transportation as tabulated by the committee staff raise several questions for the Committee's consideration. Among these he included: "How much of these expenditures can be classed as a subsidy? Have the various users been paying their fair share of this cost? Does cheaper means of transportation resulting from public expenditures reflect lower cost to the consumer? Has this expenditure caused an unjust discrimination as between various means of transportation?"

The committee staff has been engaged in assembling and developing on a national basis all available information regarding the revenues, expenses, taxes, investment and rate of return upon the investment of each type of carrier. Other subjects being studied include the relationship of wage levels between the different types of carriers and the current cost of living, the role of government generally in the field of transportation, and the adequacy or inadequacy of existing governmental agencies to provide the nation with an efficient, economical, and integrated transportation system.

World Agreement Pending on Various Load Limits

The United Nations World Conference on Road and Motor Transport, meeting in Geneva, has completed a new treaty on road traffic. While this treaty, still to be ratified by the 21 signatory nations, covers primarily automobile traffic, several annexes to the treaty are of extreme significance to the trucking industry, according to H. H. Kelly, of the State Department's Office of Transport and Communications, a delegate to the conference.

The most important of these annexes relates to sizes and weights. The maximum axle load in the new treaty was fixed at 8 metric tons or 17,600 lb, slightly under the 18,000-lb limit, advocated by the American Association of State Highway Officials, which has stirred up so much controversy in this country. Three Western European nations held out for their current legal limit of 13 metric tons per axle, a figure which the American experts regarded as completely unrealistic. Unanimous agreement was finally reached on the 8-ton load limit. Regional agreements calling for greater loads, up to 13 metric tons, are permitted. However, international road specifications are not expected to provide bridges and other structures to support these loads.

Gross weight for any vehicle or combination of vehicles is fixed by a table based on distance between axles, as suggested by American delegates. The range of weights in this table is from 32,000 to 80,360 lbs.

Maximum dimensions set forth in the

(TURN TO PAGE 304, PLEASE)

Get safer lubrication with . . .

Stanolube HD Motor Oil

● Approximately 7 million miles are traveled each year by the 450 trucks of the Olson Transportation Company, Green Bay, Wisconsin. Under continuous severe service, engines showed increasingly heavy deposits. When careful checking revealed no mechanical defects, officials turned to a lubrication expert for help.

They consulted a Standard Oil Automotive Engineer. Upon the Engineer's suggestion, the engines were switched to a truly heavy-duty lubricant: Stanolube HD Motor Oil. This superior product put an end to deposit troubles. Engines remained exceptionally clean despite continuing hard service. Cleaner and safer lubrication by Stanolube HD assures this fleet—and will assure yours—of these benefits:

FREE RINGS Because of both its stability and its detergent-dispersant action, Stanolube HD combats the formation in piston ring grooves of deposits which cause ring sticking.

LOW PISTON AND CYLINDER WEAR Stanolube HD stands up under high temperatures. A strong, protective film of oil is always present to prevent wear of pistons, cylinders, and rings.

LONGER-LASTING BEARINGS By keeping oil screens and oil passages virtually free from deposits, Stanolube HD assures uninterrupted flow of oil to all bearing surfaces. Long bearing life is the result. Also, an inhibitor in Stanolube HD protects against corrosion, always a threat to long service life of certain hard alloy bearings.

A trial of Stanolube HD in your fleet engines will show how the benefits of this heavy-duty lubricant actually cut repair costs and keep fleet units on the job longer between overhauls. A Standard Oil Automotive Engineer will help you obtain those savings.

Write Standard Oil Company (Indiana), 910 South Michigan Avenue, Chicago 80, Illinois.

STANDARD OIL COMPANY (INDIANA)

STANDARD

1288-1

HERE ARE THE REASONS SMART TRUCK OPERATORS BUY THE GENERAL C. D.

The General C. D. is an extra-tread tire built for those truck operators who *plan ahead for profits.*

Its price is higher than ordinary tires, because it renders a lower cost per mile service. And the conscientious *selling* of the C. D. carries with it many obligations far beyond the usual guarantees or service that accompany truck tire sales.

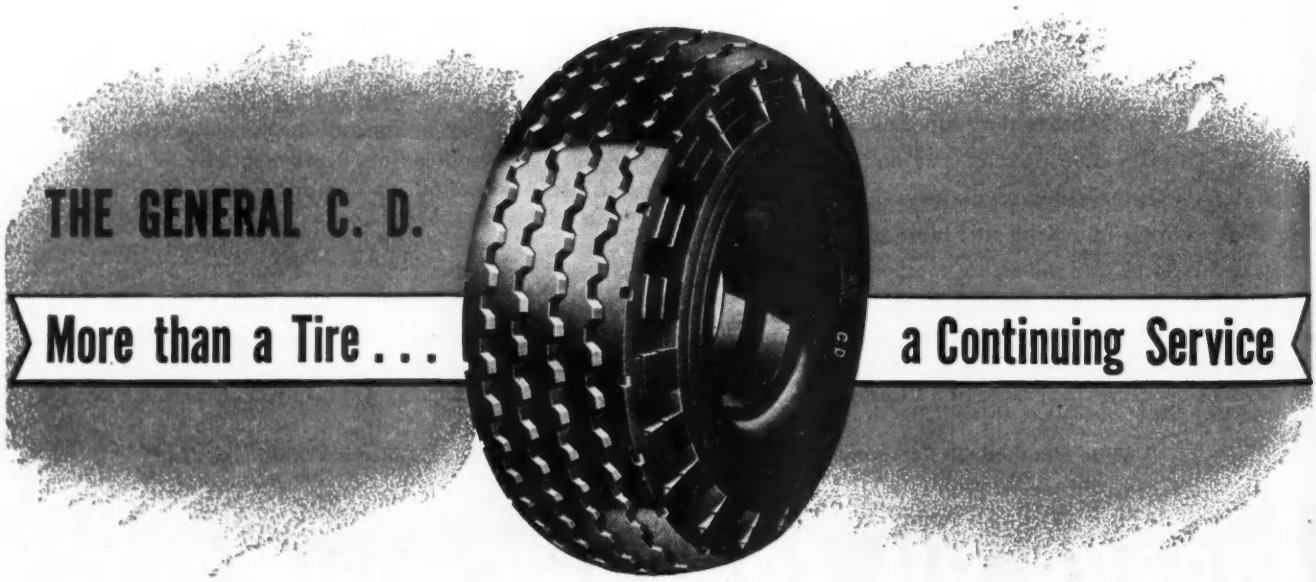
For the dealer and the truck operator must enter into a partnership dedicated to reducing tire costs, eliminating lost travel time, and removing the hazard of accidents resulting from tire failures.

The truck operator must believe in the extra savings from the extra mileage built into the original extra-thick tread. For General pioneered the extra-tread tire . . . General best knows how to build it.

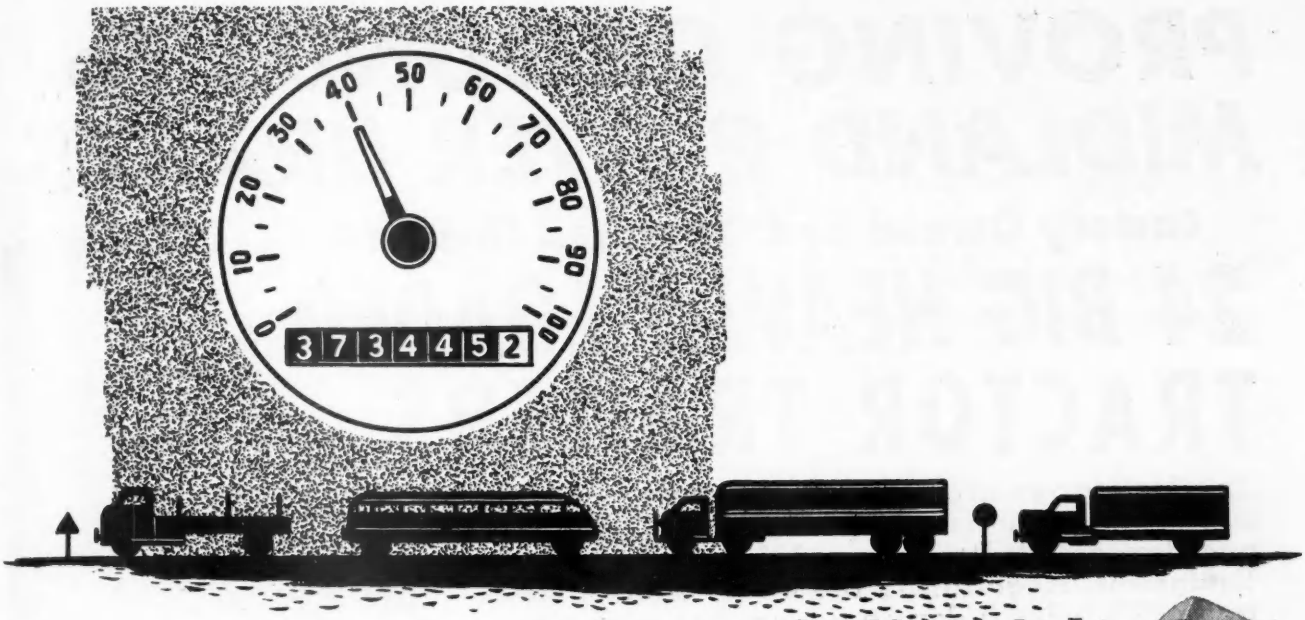
The truck operator must believe that 75% of the cost of the C. D. is in the *body* of the tire. That he uses tread rubber just like he uses gasoline, by the mile . . . and that, just as he replaces gasoline *without replacing the motor,* so should he *replace the tread* on the C. D. *without replacing the tire.*

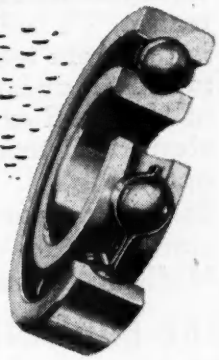
The details of *when* and *how many times* the tread is replaced should be important only to the General Tire Dealer. Only two points are of interest to the truck operator . . . fewer tire problems, and lower tire costs per mile. These two things General Tire Dealers can guarantee.

The General Tire & Rubber Company • Akron, Ohio



3840-1





LONG, LONG, LONG, LONG MAINTENANCE-FREE MILEAGE WITH SKF DEEP GROOVE BALL BEARINGS

- dependability
- low maintenance
- long life

Economy-wise fleet owners all over the country are turning to SKF bearings to help reduce maintenance costs on their high-mileage fleets. For no matter how heavy the load or how long the haul, SKF bearings can be counted on to cut down the time spent in overhaul and repair.

The SKF single row, deep groove ball bearing is *engineered* for long life with a minimum of maintenance. Because of the large intimate contact between the balls and the deep groove in each ring, SKF bearings can sustain, in addition to a high radial load, a substantial thrust load in either direction—even at very high speeds. And the ability of SKF bearings to stand up under all kinds of road conditions has been proved in many years of dependable service.

Leading manufacturers and owners of fleets select SKF bearings for rock-bottom maintenance and long-run economy. Your SKF Distributor has a stock of these bearings on hand for you. SKF Industries, Inc., Phila. 32, Pa.

6573

Automotive Bearings engineered by SKF

1-1950-1

PROVING GROUNDS for MIDLAND POWER BRAKES

Factory Owned and Operated Fleet of

24 BIG HEAVILY LOADED TRACTOR TRAILERS

This factory owned and operated fleet of heavily loaded tractor trailer units is equipped with both experimental and standard Midland Air and Vacuum Power Brake Equipment. Negotiating the heavy Detroit street traffic, 24 hours a day, in all weather conditions, is a severe test in itself. These tests are conducted month in and month out under the watchful eyes of Midland engineers. Laboratory tests are substantiated through this always available fleet operation.

See your nearest Midland Distributor, or contact us for complete information about Midland Power Brakes.

THE MIDLAND STEEL PRODUCTS CO.

6660 Mt. Elliott Avenue • Detroit 11, Mich.

BRANCHES

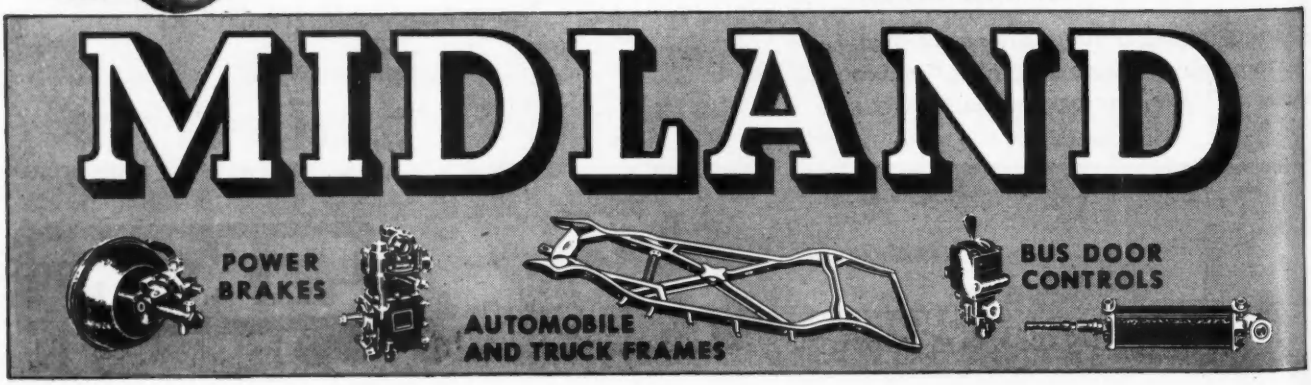
1367 So. Flower St., Los Angeles.
601 S. E. Clay St., Portland, Ore.

EXPORT DEPARTMENT

38 Pearl St., New York, N. Y.

THESE 24 HEAVILY LOADED TRACTOR TRAILER UNITS PROVE MERIT OF MIDLAND POWER BRAKES.

MIDLAND



1944-1

CCJ NEWSCAST

MEADOR NEW DRIVEAWAY CHAMP

Noel Meador, 26-year-old driver for Central Truckaway System, Louisville, won the driveaway title at the National Championship Auto Transport Roadeo in Detroit, piling up a score of 293.66, the highest ever recorded in the driveaway competition. Harold Davis of Automobile Shippers, Inc., Cleveland, Ohio, was victor of the truckaway division with a score of 296.

CASTNER IS FULL-TRAILER CHAMP

John H. Castner, driver for the Pierce Auto Freight Lines, Medford, Ore., was crowned National Truck and Full Trailer Roadeo champion at finals held recently in conjunction with the Arizona Transport Association convention. Using a Kenworth truck and Fruehauf trailer, Castner drove an almost flawless course in four minutes and 25 seconds. He will be presented with a trophy and payment of $50 monthly for one year by the American Trucking Associations, Inc.

EDWARDS HEADS TRANSIT ASSN.

Morris Edwards, president of Cincinnati Street Railway Co., has been elected for one-year term as president of the American Transit Association. Other officers named at the 68th annual meeting in Atlantic City, N. J., include H. L. Bollum, president of Springfield, Mass. Street Railway Co., vice president; and J. E. Heberle, vice president and comptroller of Capital Transit Co., Washington, D. C., treasurer.

KEESHIN BUYS HAYES LINES

The Hayes Freight Lines, one of the nation's largest trucking systems which stretches over 23,000 miles, has been acquired by John L. Keeshin, motor freight pioneer and Chicago sportsman, and David H. Ratner, motor carrier executive. To be known as the Keeshin-Hayes Lines, the system has 2100 employes and operates some 2500 pieces of equipment in five states. It was organized as a hauler of coal, sand and gravel from railroads to local dealers in 1884 at Mattoon, Ill.

S.A.E. HEARS JUDGE VANDERBILT

Speaking before the Metropolitan Chapter of the Society of Automotive Engineers in New York, Chief Justice Arthur T. Vanderbilt of the N. J. Supreme Court urged that traffic laws be made uniform and elevated from what he termed the "veritable jungle" of municipal ordinances.

The noted jurist also advocated adoption of a "non-fixable ticket" system for traffic violations as a way to reducing the shocking toll of automobile traffic casualties. He emphasized the success of such a program in New Jersey. Among other things, Justice Vanderbilt called for special training for traffic police, providing prosecutors at traffic case hearings and appointment of well-trained jurist together with adequate procedures for these courts.

BODY MEN NAME GLASIER

Fred C. Glasier of the Glasier Body Corp., Newark, N. J., has been named president of the National Truck Body Manufacturers and Distributors Association. Other officers named at the second annual convention in Chicago recently include: E. E. Miller, De Kalb Commercial Body Co., De Kalb, Ill., vice president; and Fearson S. Meeks of S. J. Meeks Son, Washington, D. C., secretary-treasurer.

NATA ELECTS OFFICERS

W. H. Boutell of Flint, Mich., was elected chairman of the board of directors for the National Automobile Transporters Association in Detroit. Others elected included: F. E. Wolverton of Buffalo, N. Y., vice chairman; L. W. Patterson, Pontiac, Mich., secretary; and H. G. Rice of Detroit, treasurer.

TAX DIVERSION STILL BIG

The National Highway Users Conference states that over $189 million of special taxes paid by highway users had been diverted for other purposes in 1948, representing a total of 11 per cent more than that diverted in 1947. A statement issued by the conference shows that of the diverted monies raised through gasoline taxes and registration fees, some $97 million went to state general funds; $41 million to county and local funds; $45 million for education and another $6 million for other purposes ranging from mosquito control to harbor improvement. In New York state upwards of $71 million paid in highway use taxes was not spent for highway purposes, almost half of all highway use taxes paid there, the Conference indicated.

AUGUST FREIGHT HAULS UP

Freight volume transported by motor carriers in August increased 17.8 per cent over July and 5.9 per cent over August, 1948, the Department of Research, American Trucking Associations, Inc., reported. Volume in July, however, had dropped 8.4 per cent below June and 1.3 per cent under July, 1948.

INDUSTRIAL NOTES

Standard Thomson Corp. of Dayton, Ohio, has established a new manufacturing division for production of "Tech-Forged" bellows recently developed in the company's engineering laboratories. **Ward LaFrance International, Inc.** has opened offices at 52 Broadway, New York 4, N. Y. **Clark Equipment Co.** has announced completion of a new plant at Jackson, Mich., to combine production of transmissions, farm tractor drives, gear and forgings. **L. Sonneborn Sons, Inc.,** has transferred general offices to 300 Fourth Ave., New York 10, N. Y. **Highway Trailer Co.** has combined its general office, repair and paint shops and parts

(TURN TO PAGE 256, PLEASE)

DATES AND DOINGS

NOV. 10-12—Montana Motor Transport Assn. annual convention, Northern Hotel, Billings, Mont.

NOV. 14-18—Georgia School of Technology, Atlanta, Ga.

NOV. 17-18—Arkansas Bus & Truck Assn. convention, Marion Hotel, Little Rock, Ark.

NOV. 28-30—Florida Trucking Assn. convention, Jacksonville, Fla.

DEC. 1-3—Oregon Motor Transport Associatin, Inc., annual convention, Multnomah Hotel, Portland, Oregon.

DEC. 5—Missouri Bus & Truck Association annual convention, Hotel Governor, Jefferson City, Mo.

DEC. 5-7—Annual meeting, Motor & Equipment Wholesalers Association, Stevens Hotel, Chicago, Ill.

JAN. 9-13—Society of Automotive Engineers Annual Meeting, Book-Cadillac Hotel, Detroit, Mich.

JAN. 16-18—Truck-Trailer Mfrs. Assn. Annual Convention, Edgewater Gulf Hotel, Edgewater Park, Miss.

JAN. 20-21—New Mexico Motor Carriers Assn. Annual Convention, Carlsbad, N. M.

JAN. 23-27—Seminar, American Standards Association, Engineering Societies Building, 29 W. 39th St., New York City, N. Y.

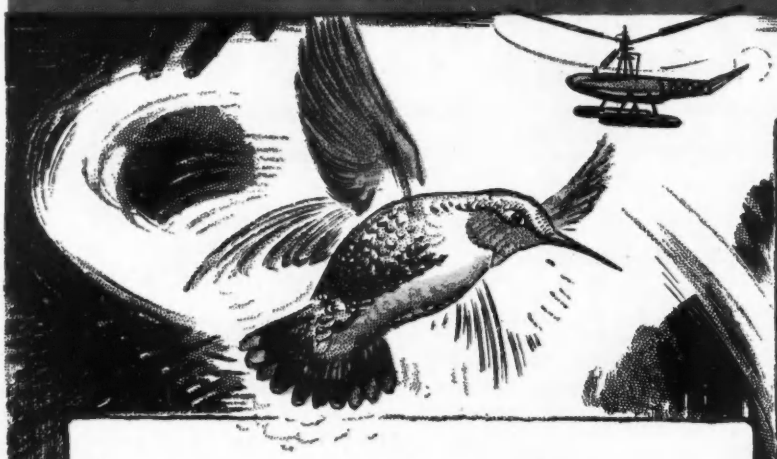
JAN. 26-27—National Council of Private Motor Truck Owners Annual Meeting, Commodore Hotel, New York, N. Y.

FEB. 5-8—National Automobile Dealers Equipment Asso., Convention Hall, Atlantic City, N. J.

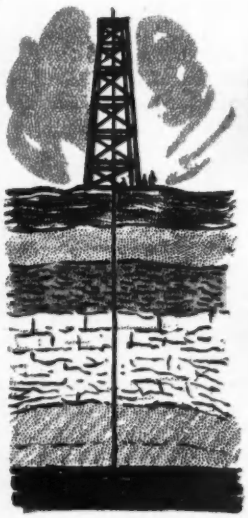
MARCH 6-9—Annual meeting American Road Builders' Asso., Netherlands Plaza Hotel, Cincinnati, Ohio.

APRIL 26-27 — 3rd Highway Transportation Congress of National Highway Users Conference, Mayflower Hotel, Washington, D. C.

NATURE'S BEST IS TOUGH TO BEAT



THE HUMMING BIRD'S WING ACTION GIVES IT THE MANEUVERABILITY OF A HELICOPTER, THE RELATIVE SPEED OF A JET, AND IT CAN FLY PROPORTIONATELY GREATER DISTANCES THAN EITHER. AERONAUTICAL ENGINEERS HAVE YET TO PRODUCE ANYTHING TO SURPASS NATURE'S MOST VERSATILE WINGED ANIMALS.



AND

NATURE'S TOUGHEST CRUDE MAKES VEEDOL 90 H.D. UNSURPASSABLE

VEEDOL 90 H.D. is refined from nature's toughest crude oil — the magnificent crude found only in the Bradford, Pa., area. Scientific refining can improve any crude, but *nature's toughest STAYS the toughest, and nature's toughest STANDS the toughest beating under brutal, heavy-duty conditions.*

Naturally tougher VEEDOL 90 H.D. is naturally more resistant to heat and wear. For that reason, VEEDOL 90 H.D. means greater mileage between overhauls, thanks to its famous "film of protection."

VEEDOL
OILS AND GREASES

FEDERAL TIRES
"GOOD FOR A LONG SAFE RIDE"

NATURE PLUS! MAN-MADE ADDITIVES WORK MIRACLES IN VEEDOL 90 H.D.!

VEEDOL 90 H.D is a compound of scientifically-selected additives, blended perfectly in naturally-stable Bradford, Pennsylvania, oil, to reduce sludge and gum formation, protect bearings from corrosion, minimize lacquering of pistons and valve stems . . . all with full-throttle operation.

100% BRADFORD, PENNSYLVANIA

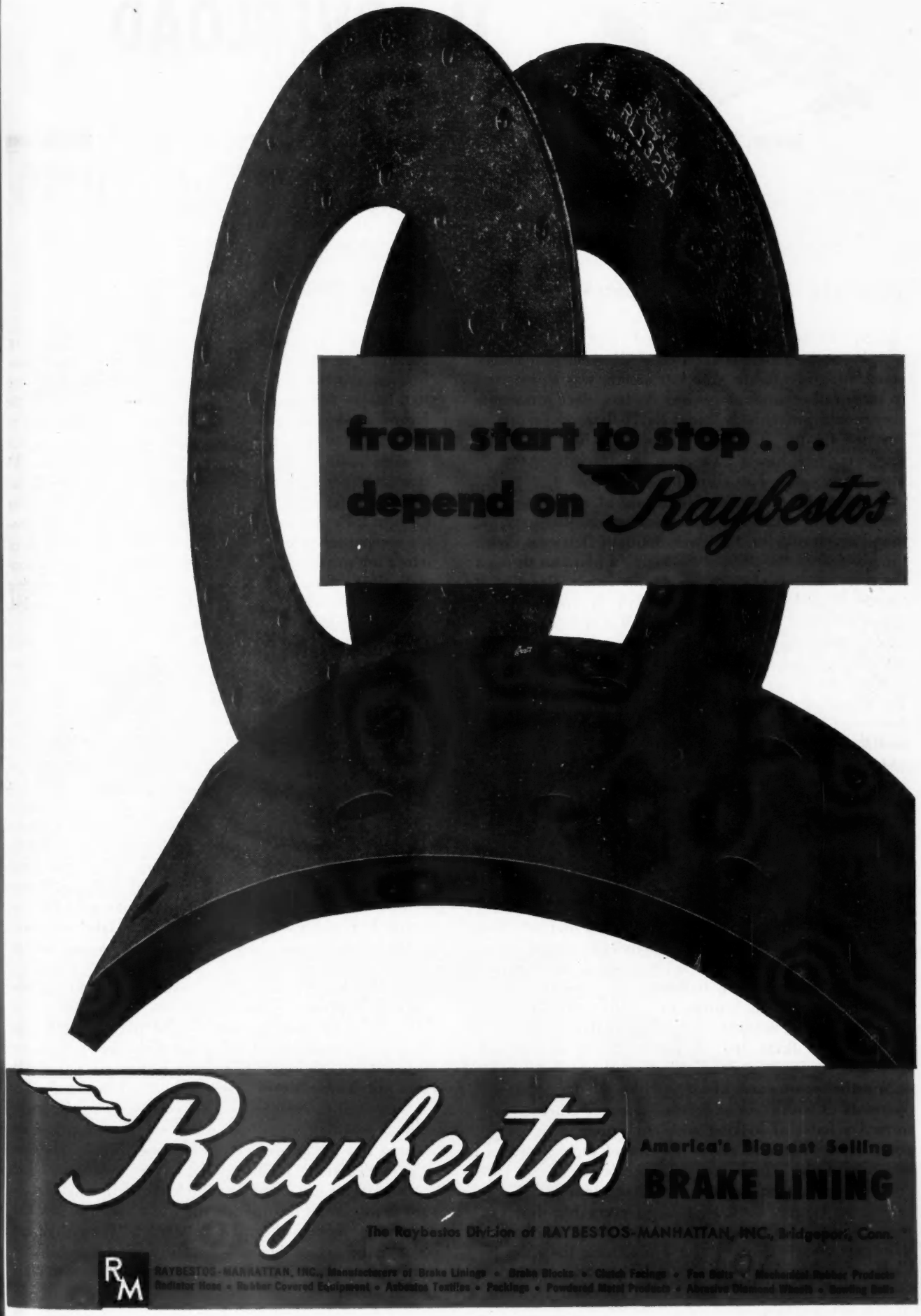
VEEDOL

90 H.D. Motor Oil . . . Cleans as you Drive

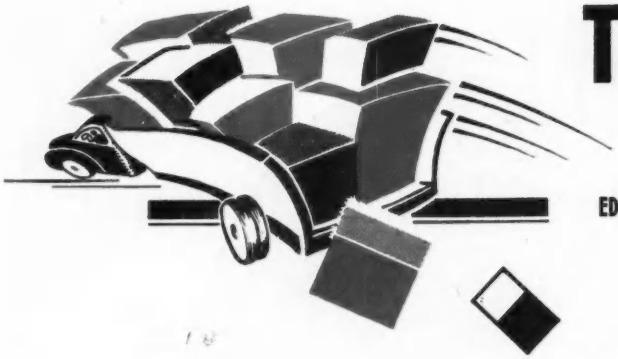
TIDE WATER ASSOCIATED OIL COMPANY

17 Battery Place, New York 4, N. Y. • Thompson Building, Tulsa 2, Oklahoma • 79 New Montgomery Street, San Francisco 20, Calif.

1288-1


from start to stop . . .
depend on Raybestos
Raybestos
America's Biggest Selling
BRAKE LINING
The Raybestos Division of RAYBESTOS-MANHATTAN, INC., Bridgeport, Conn.
RM
RAYBESTOS-MANHATTAN, INC., Manufacturers of Brake Linings • Brake Blocks • Clutch Facings • Fan Belts • Mechanical Rubber Products
Radiator Hose • Rubber Covered Equipment • Asbestos Textiles • Packings • Powdered Metal Products • Abrasive Diamond Wheels • Bowling Balls

1945-1



The OVERLOAD

EDITORIAL COMMENT by BART RAWSON - EDITOR

What is the Price of Good (and Bad) Fleet Maintenance?

JUST one of the many things that kept members stepping at the annual convention of the American Transit Association in Atlantic City last month, was a free treat to three rather unusual movies. As box office attractions they would probably be rated by Hollywood experts as destined for the "C" circuits, but as industrial "shots" they were top drawer. The bus and truck operators in attendance watched in silent fascination.

Each of the films recorded scenes of sheer glamour, coupled with ultra-modern maintenance efficiency, at brand new bus shops. E. Powell Smith of Delaware Coach Co. was first on the podium describing a film tour through the new building of Southern Pennsylvania Bus Co. at Chester, Pa. He was followed by Lewis W. Bailey of San Antonio Transit Co., and Randolph Whitfield of Georgia Power, each depicting mouth-watering scenes of their new plants in the sunny South.

When the shows were over the floor was thrown open. The questions sounded a familiar note. "How much did they cost?" When the answers came back ranging from $800,000 to $1½ million, the gasps were audible. The costs per square foot, incidentally, ranged from $9.40 to $13.00. A bus man near us said: "That's just fine, but right now it's all we can do to keep our figures in the black." Later an operator of both trucks and buses commented along these lines: "How in the H . . . can we make enough money to build a million dollar shop like those?"

Of course, the answers to these questions are obvious, even though there was not time at this particular session to get them on the record. Some of them would read like this: increased maintenance productivity; *reduced maintenance* cost; ultimate cash savings above and beyond the price tags of the new buildings. In the case of bus properties the Public Utilities Commission would see to that, even if the particular property should not. In the case of truck fleets, the control would lie in that old American institution—competition.

Nonetheless we came away wondering if far too many operators of both types of fleets—buses and trucks—have formed a habit of looking with envy upon their neighbors; of viewing with alarm the size of their bank balances; of neglecting the *cost of doing business with outmoded maintenance facilities;* of doing nothing.

It is, of course, obvious that not every big fleet can raise the capital for a million dollar shop, nor is the little guy always able to raise $50,000 for the shop he needs, even though he might establish positive proof that his maintenance savings, would offset the cost.

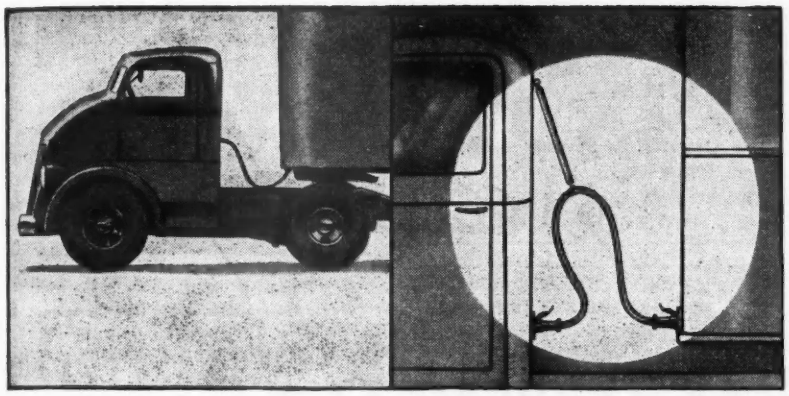
Fortunately, there is another approach—remodeling, either all at once or on a progressive, long range plan. Recognizing this idea long ago COMMERCIAL CAR JOURNAL has in the past (and will continue to do so in the future) passed along many practical ideas designed to help fleetmen remodel their older quarters to provide modern maintenance facilities at minimum costs. We recall with some pride such articles as "Remodelled 'Barn' Makes Modern Fleet Shop" by Jean Ray of Virginia Electric & Power Co. (March, '46). In it, Jean told how his company converted two bays of an old trolley barn into a top grade modern shop for motor vehicles. A concrete floor, some patching and painting, a new heating system and modern fluorescent lights were all he needed. To this he added up-to-date maintenance equipment.

More recently, in a story entitled "The Old Gray Mill Ain't What She Used to Be" (Feb., '49), Lewis Hankins of Hemingway Bros. in New Bedford, Mass., told what his company did with a 30-year old cotton mill. In brief, they ripped off the top five stories, put a new roof over the ground floor, added liberal quantities of paint and modern lighting, then proceded to fit themselves out with a modern departmentalized fleet shop that can stand its ground with most million-dollar rivals. Incidentally, we can't resist quoting a paragraph from Hank's story:

"We had most of our plans established by the fall of that year when the special November, 1947 Show issue of COMMERCIAL CAR JOURNAL came out with its 20-page feature, 'An efficiently Equipped Fleet Shop.' We immediately revamped some of our plans to take advantage of the shop layouts there and the final results are as shown."

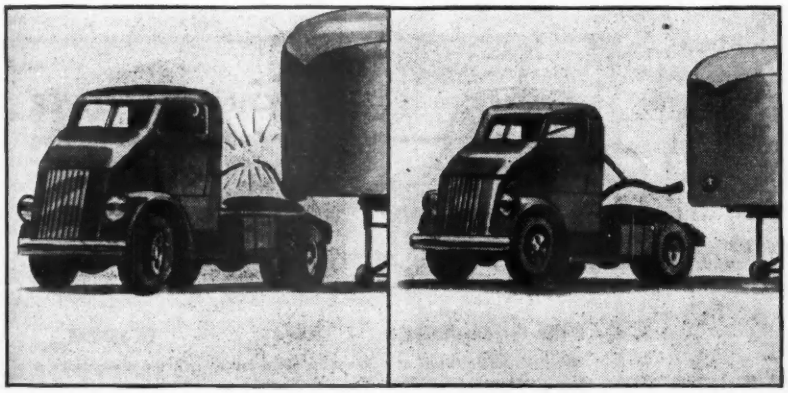
We could name many more examples, including the Alabama contractor who wagged his shop behind him, rolling it to whatever spot he needed it (Sept., '46) but we are not conducting a self-admiration party. We mentioned these examples, merely to prove the point that there are many ways in which a fleetman can modernize his shop and thereby reduce his cost of doing business, without building a million dollar shop! When we see pictures like the ones shown in Atlantic City or when we read stories about million dollar shops (yes, we've had those too) we can always profit by departmental details even if we cannot incorporate the whole idea. Moses was right when he carved out God's words: "Thou shalt not covet thy neighbors' house." But there was no prohibition to envying *and* using the ideas that are incorporated within that "house."

How to stop all your trailer cable and electrical connection troubles..



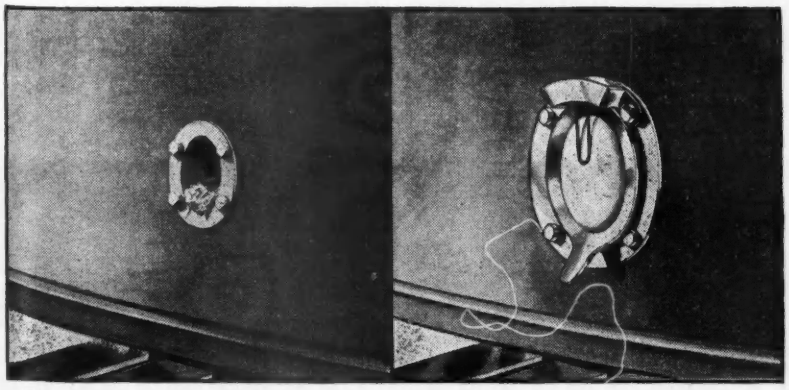
TROUBLE: Ice, mud, gravel, etc., batter flimsy cables; extremely sharp turns may cause kinking; insulation rots and frays.

SOLVED: Warner Cables are built for heavy duty work and will withstand all road hazards.



TROUBLE: If driver forgets to unfasten permanent type cable connections when uncoupling, cable will break.

SOLVED: Single cable plug-in feature of Warner kits permits plug to pull free of trailer when such tension is applied. Works like any home light cord.



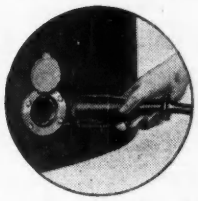
TROUBLE: Ordinary plug-in receptacles become fouled with road dirt, snow, etc.—give poor contact or are useless unless thoroughly cleaned.

SOLVED: Warner "Dreadnaught" receptacles have spring-operated, self-sealing covers. No dust, mud, dirt, snow, etc., may enter.

ANSWER: STANDARDIZE ON WARNER "DREADNAUGHT" ELECTRIC CABLE AND CONNECTION KITS

WARNER "Dreadnaught" Electric Cable and Connections are heavily insulated and ruggedly built for years of long wear regardless of weather or road conditions. No more worries that your trailer parking, running or stop lights will black-out. Single cable design eliminates complicated wiring connections and systems.

Warner "Dreadnaught" kits are made to fit all types of trailer-tractor hook-ups. For complete information see your nearest WARNER dealer . . . or write WARNER ELECTRIC BRAKE MANUFACTURING COMPANY, Beloit, Wisconsin.



FAST HOOK-UP . . . PLUG IN LIKE A RADIO

No fuss or bother when you use a Warner "Dreadnaught" system . . . simply plug in cable as you would a radio. Special long-contact, knife and clip design assure positive electric contact and snug, firm fit.

WARNER "DREADNAUGHT" ELECTRIC CABLE AND CONNECTION KITS . . . COMPLETE — EASILY INSTALLED

Warner "Dreadnaught" Electric Cable and Connection kits are available in double-plug or single box-terminal and plug arrangements. Each kit complete and ready to install. Full instructions supplied . . . easy to install yourself.

WARNER

THE ORIGINAL AND PROVEN

ELECTRIC BRAKES

SINCE 1927

1531-1

"KOPPERS HAS REVOLUTIONIZED THE PISTON RING INDUSTRY—"

Jos Davidson General Manager

Davidson Transfer & Storage Company

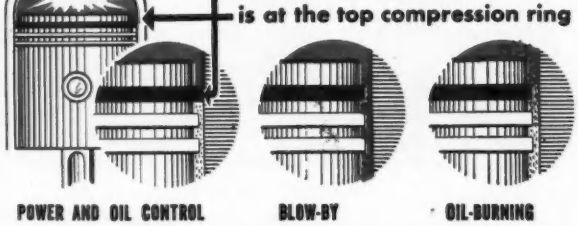
CYLINDER WEAR REDUCED BY HALF... RING LIFE INCREASED 4 TO 5 TIMES

Davidson, one of the country's largest and best-known fleets, has been thoroughly sold on American Hammered Piston Rings for years and years.

J. I. Davidson, in charge of maintenance of the 407 units that make up the Davidson fleet, believes that Koppers has revolutionized the piston ring industry, and is glad to recommend the new American Hammered Piston Rings to fellow fleet operators.

When you read the whole exciting story about Porous Chrome* Plating and K-Spun Metal, we are confident you will do what Davidson has done—*concentrate on A-H Rings 100%—and reduce cylinder wear by half and increase ring life four to five times!* Koppers Company, Inc., Piston Ring Dept., Box 626, Baltimore 3, Md.

*Van Der Horst Process



POWER AND OIL CONTROL

Compression rings made of K-SPUN keep flame in the combustion chamber...keep oil out. K-SPUN is guaranteed against breakage, has 50% more "spring" quality, four times greater strength. Result: top power—gas and oil economy.

BLOW-BY

When the Compression Ring doesn't make an explosion-proof seal, combustion flame "blows-by" and burns off oil that should lubricate the cylinder wall. Result: excessive scuffing and wear.

OIL-BURNING

On the intake stroke, a weak Compression Ring leaves excess oil on the cylinder wall, which on the compression stroke is then pumped into the combustion chamber. Result: high oil consumption.

A MUST FOR THOSE TO WHOM TRANSPORTATION IS A BUSINESS

American Hammered

A PRODUCT OF

K-SPUN

The Miracle Metal For Piston Rings

With the development of K-Spun, the miracle metal for Piston Rings, Koppers engineers and metallurgists turned the piston ring business upside down!

For years, automotive engineers have known that the top compression ring in any internal combustion engine did 85% of the job. But they knew, also, that the all-important top compression ring rapidly lost most of its effectiveness because no metal had yet been developed with "guts" enough to give long service in today's high-speed, high-compression engines . . . and no oil ring has ever been designed that can take over the job of the top compression ring.

First Used in War Planes

Koppers engineering solved the problem with an entirely new piston ring metal. K-Spun, the new miracle metal for compression rings, is the key to piston ring sets that establish new standards of performance. Top compression rings made of K-Spun do everything a compression ring should do . . . and retain their full effectiveness over an amazing period. In its early stages of development, K-Spun helped to increase by five times the flying hours between engine overhauls in Allied war planes. Soon it was even further improved, and the revolutionary American Hammered Set has already established new records in the toughest kind of fleet service. Now, piston ring sets engineered around compression rings of K-Spun are available for automobiles, trucks, buses, tractors, marine and aviation engines, stationary engines.

Guaranteed

American Hammered Piston Rings made of K-Spun with Porous Chrome Plating are guaranteed against breakage on installation or in service for the length of the engine's life!

"TIPPING*" the "HOT SHOT*"

HOW OLLIE CLAYTON AND RAY SHANKLIN ESTABLISHED A RECORD FOR CROSS COUNTRY TRUCKING.
*(TRUCKING TERMS: "TIPPING" MEANS TO GO FAST; "HOT SHOT"—VALUABLE CARGO)

THE DAVIDSON TRANSFER AND STORAGE, BALTIMORE, PROMISES THE "IMPOSSIBLE"—DELIVER AN IMPORTANT CARGO CROSS COUNTRY IN LESS THAN 6 DAYS!

DAVIDSON SAFETY PATROL CHIEF, BILL DUFFY, GUIDES THE "HOT SHOT" SPECIAL BY MOBILE TELEPHONE.

AFTER RIDING OUT BAD EASTERN SNOW STORMS, OLLIE DOES "SACK TIME" IN THE TRUCK'S SLEEPING QUARTERS. BUT THE WORST IS YET TO COME.

ROAD WASHOUT! AND A 20-MILE DETOUR OVER MUDDY, SLIPPERY BACK ROADS.

ON THE MORNING OF THE FIFTH DAY! DAVIDSON, #599 REACHES GOAL WITH THE PRECIOUS CARGO IN SPITE OF STORM AND DETOURS.

LISTEN TO WHAT JOSEPH DAVIDSON, VICE PRESIDENT AND GENERAL MANAGER SAYS: "THAT TRUCK WENT ACROSS THE COUNTRY AND BACK WITHOUT A BIT OF TROUBLE AND WITHOUT ADDING A QUART OF OIL ON THE ROAD! THANK GOOD SHOP MAINTENANCE AND AMERICAN HAMMERED PISTON RINGS FOR ESTABLISHING THIS RECORD."

Piston Rings

KOPPERS RESEARCH

KOPPERS

1842-2

LAUGH IT OFF

"I won't be home until late, dear," said the Fire Chief as he juggled the cute blonde on his knee. "I'm trying out a new siren."

CCJ

Catty Cora, while attending a recent County Fair, met a shy young countryman who stirred romantic yearnings in her heart. Through good fortune she was able to arrange a date with him for the following Sunday night. He arrived exactly on the dot, bearing a huge bouquet of flowers which he thrust toward her timidly. Quickly arranging the flowers in a vase, she threw her arms around him and kissed him for bringing them. Just as soon as he disengaged himself from her embrace, he grabbed his hat and made for the door.

"Oh, don't go," pleaded Cora. "I didn't mean to offend you."

"I'm not offended," the exuberant hayseed replied. "I'm going out to pick more flowers."

CCJ

NELLIE BOUGHT A NEW DRESS,
IT WAS SILKY AND VERY THIN;
SHE ASKED ME HOW I LIKED IT,
SO I ANSWERED WITH A GRIN:
"WAIT TILL THE SUN SHINES, NELLIE."

CCJ

Terminal Manager: "No, we don't have an opening for a nightwatchman right at this time. How old are you anyway, Pappy?"

Elderly Applicant: "I don't rightly know, son, but I've had the seven year itch nine times."

T. Mgr.: "In that case you're a sexagenarian."

Elderly App.: "You're dern tootin I am! Why my wife had triplets early this spring."

CCJ

Safety Sadie says—Nothin' can hold liquor like a bottle, bud. Leave it there.

CCJ

A TRICKY JANE, I'LL TELL THE WORLD,
IS LITTLE MINNIE MARTERS
AN INVITING SMILE ON ROSY LIPS
BUT MOUSETRAPS ON HER GARTERS.

The superintendent of transportation decided not to inform his little son of the impending arrival of the stork, but as the months progressed the secret grew more difficult to conceal. Finally, he felt he must break the news.

"The stork has been flying over our house," he explained. "One of these days soon he'll light on our chimney and drop a bundle from heaven."

"I hope he doesn't scare Mommy," replied the lad. "She's pregnant, you know."

CCJ

The carburetor specialist and the brake specialist were discussing the reducing exercises of their wives. "My wife is really getting in shape," the carburetor mechanic said. "Two months ago she couldn't even see her feet. Now she can lean over and touch them without bending her knees."

"This morning my wife touched her chin to the floor without bending her knees," the brake man said.

"Boy, that's great. How did she do that?"

"She fell out of bed."

Two executives from the commercial vehicle section of a large auto manufacturer were relaxing in a bar. In the course of their shop talk one asked, "Is your advertising getting any results?"

The other took a long swallow of bourbon and water before he answered, "Sure thing! Last week we advertised for a night watchman, and the next night we were robbed!"

CCJ

There had been a three-car pileup at the busy street intersection and the city driver had seen it from the door of the store to which he was making a delivery. Summoned into court as a witness he was being browbeaten by the counsel for the defendant.

Lawyer: "You say you were about thirty-five feet away from the scene of the accident. Just how far can you see clearly?"

City Driver: "Well, when I wake up I see the sun and they tell me that it is about 93 million miles away."

CCJ

Outraged Wife: "Couldn't you think of anything better than coming home in this drunken condition?"

Erring Truck Mechanic: "Yeah — but she was out of town."

CCJ

Steno Lou: "What's the best way to stop Luke from buying me so many nice things?"

Steno Sue: "Marry him!"

CCJ

THE HANDSOME YOUNG AUTO PARTS CLERK WAS SEATED ON THE DAVENPORT WITH HIS LATEST FLAME. "I'M GOING TO KISS YOU UNTIL THE COWS COME HOME," HE SAID.

"OH, BUT MY FATHER AND BROTHER ARE BOTH POLICEMEN," SHE WARNED.

"OKAY," REJOINED THE PARTS CLERK, "I'LL KISS YOU 'TIL THE BULLS COME HOME."

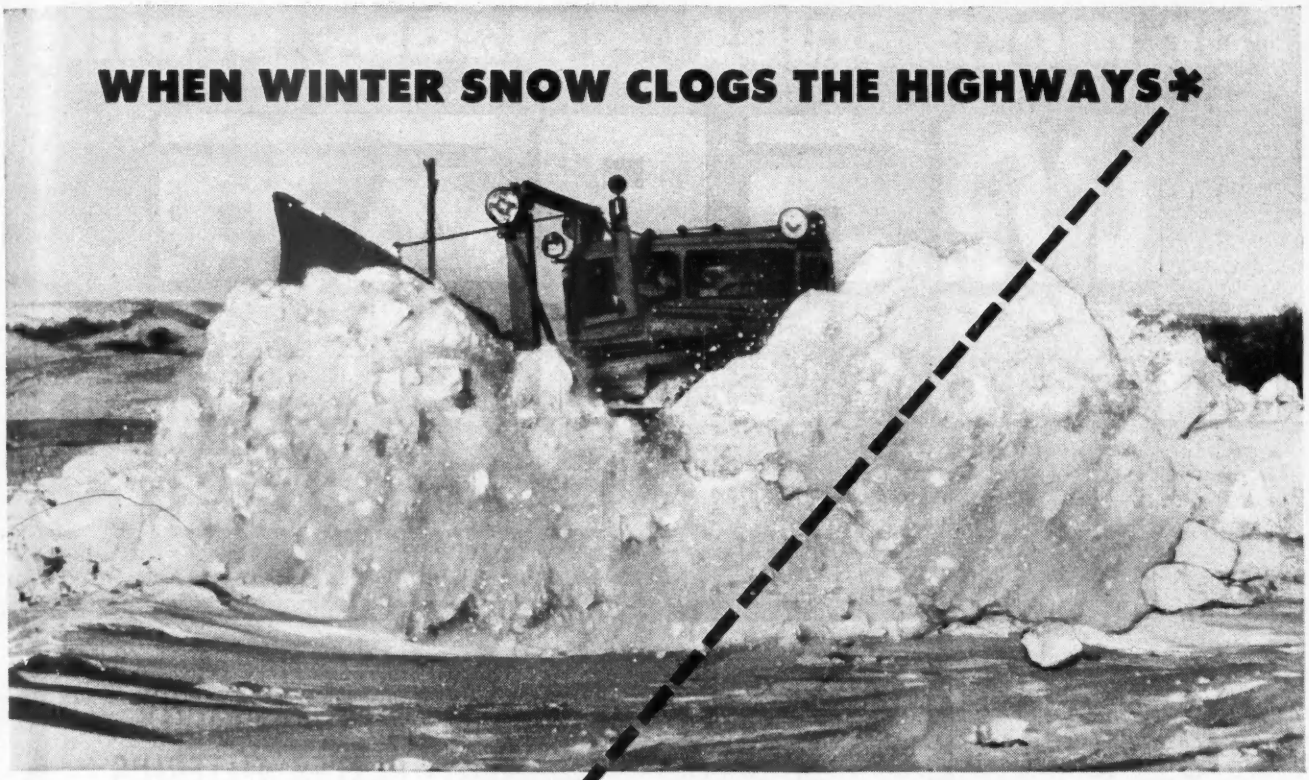
CCJ

Mabel: "Pat took me for a ride in his new tractor-trailer the other day. We sure did get into a mess, too. Pat tried to straighten out a curve that wouldn't straighten and we turned over in a growth of vines and bushes. Pat and I got caught in the thorns."

Peggy: Who caught you?"

(Resume Work)

"Frankly, I think horsepower would be cheaper!"

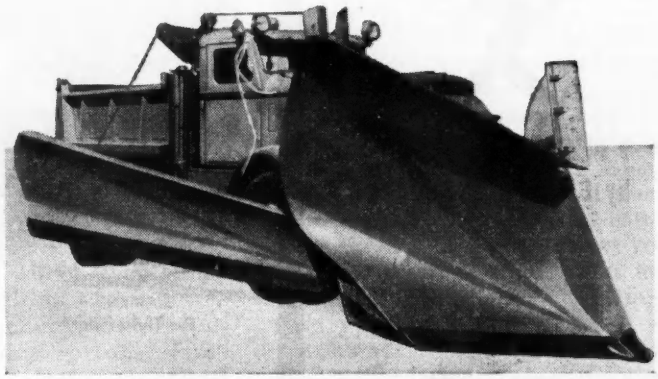


OSHKOSH* KEEPS TRAFFIC MOVING

Wherever winter snow clogs highways, you'll find OSHKOSH out in front—keeping traffic moving. These powerful trucks—with sure-footed traction in *all wheels*—are ruggedly engineered to stand many years of grueling, battering winter work, with minimum upkeep expense.

Then, with equal efficiency, OSHKOSH shifts over to on-and-off the highway hauling, maintenance, construction, and other necessary jobs. They pay their way every month of the year.

Prepare for the winter ahead—order *now* for assured delivery.



OSHKOSH Model W-2206 4-wheel drive truck with snow removal equipment.

SERVICE STATIONS
LOCATED AT CONVENIENT POINTS
IN THE UNITED STATES AND CANADA

Write for descriptive literature.

OSHKOSH MOTOR TRUCK, INC.
OSHKOSH WISCONSIN

CABLE ADDRESS: "OSHMOTOR" OSHKOSH

OSHKOSH
4 and 6 WHEEL DRIVE TRUCKS

3811-1

For more sales . . . steady profits

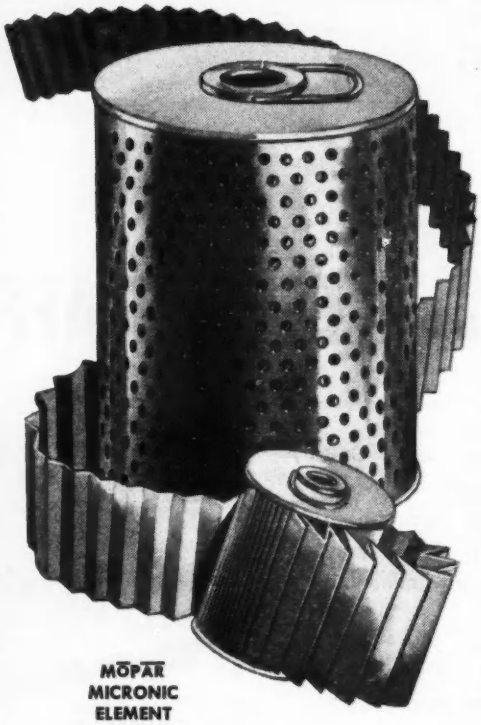
MoPar

MICRONIC OIL FILTERS AND FILTER ELEMENTS

ENGINEERED
by Chrysler Corporation

INSPECTED
by Chrysler Corporation

SUPPLIED
by Chrysler Corporation



MoPar MICRONIC ELEMENT For Thrift Filter

BIGGER CAPACITY... FASTER FILTERING

Factory engineered and inspected for Plymouth, Dodge, De Soto and Chrysler cars and Dodge *"Job-Rated"* trucks!

RETAINS 33⅓% more dirt per square inch of filtering surface area.

PROVIDES 571 square inches of filtering surface against 69 for conventional type.

REMOVES harmful abrasives and solids as small as a micron (.000039 of an inch).

PROVIDES from 3 to 5 times the filtering capacity of a waste type filter of corresponding size.

ALLOWS greater filtering speed.

WILL NOT affect detergents or additive oils, nor be harmed by acids, heat or water.

WILL NOT channel, unload, warp, disintegrate or distort.

MoPar MICRONIC SEALED TYPE OIL FILTER

MoPar MICRONIC THRIFT TYPE OIL FILTER

MoPar MICRONIC ELEMENT For Full Flow Filter

2241-1

Through Dealers FOR

PLYMOUTH · DODGE · DE SOTO · CHRYSLER CARS
DODGE "Job-Rated" TRUCKS

CHRYSLER CORPORATION • PARTS DIVISION
DETROIT 31, MICHIGAN

USE CHRYSLER CORPORATION PARTS AND ACCESSORIES
MoPar
FACTORY ENGINEERED AND INSPECTED

FOR SAFETY'S SAKE . . .

It's Your Neck, by Heck, so Quick Check and Save a Wreck

It's a V.I.P. behind the wheel of a truck . . . but it's just as very important that the vehicle *under* the wheel be safe and sound. AM safety checks are Very Important Processes. They help good drivers drive a good while longer.

How "intimate" are you with your truck? Do you know she is ready, willing and able before you plank down on that well upholstered driver's seat? Five minutes spent in a quick inspection is damned cheap "round trip" insurance.

Mechanical defects cause 10 per cent of the accidents on our highways. One out of ten crack-ups, then, can be attributed to careless maintenance, poor adjustments or sloppy vehicle inspections. Will your *next* one be that one in ten?

You as an alert driver can cut this one in ten by checking up on the checker-uppers. Your practiced eye, your tutored ear, your sensitive nose will tell you when that buggie is unsafe for the road. But use them—that's why you've been carrying these faculties around for thirty years.

This may save you walking home, calling a tow truck or disengaging yourself from the hedge fence.

WALK around the truck checking tires, wheel lugs, rims, lights and condition of windows.

STOOP to check under her skirts for sagging springs, damaged shackles, loose steering, leaking gear boxes.

LIFT her bonnet and examine fan belt, radiator, cooling system joints, electrical wires, oil leaks, looseness of assemblies.

STEP into the cab and check steering play, brake pedal travel, horn, signals, mirrors, dash panel controls.

START the engine and look at oil pressure gage, ammeter, tachometer, temperature gage, windshield wiper action.

PULL UP and check clutch engagement, transmission operation, brakes, steering.

LISTEN for clunking, rattling, groaning, pinging, knocking, whistling.

It's obvious that some of these conditions will not directly cause an accident. However, when you clonk out on the road, you are vulnerable, and some dope may take you for a dark stretch of pavement. When you are stalled in a traffic lane, you are flagging a hearse.

So eye that potential breakdown. Then nose it around. And live longer.

The guy who takes out a truck sight on seen might be the same type of boob who takes Sally out without lo[illegible]ing Sally over. And every dri[illegible] knows that would be Silly. [illegible]ether it's your neck or your n[illegible]ing—

Sizer Up Before You Taker Out

Reprints of the above are available at nominal cost. Write the Editor

1-88v1

"100,000 to 150,000 MILES BETWEEN OVERHAULS for each unit, since changing to Marathon V. E. P.," reports Mark West, Terre Haute, Ind., operator of Mark West Fruits and Vegetables refrigerator trucks. "Our fleet of White Trucks hasn't had a bearing failure in the 3 years we've been operating on V. E. P."

Make a 300 mile run...with only 200 miles' engine wear

Want more payload miles between overhauls . . . fewer repairs . . . lower operating costs? Scientific laboratory tests, and 12 years of highway experience have proved Marathon V. E. P. Oil makes engines last 50% longer than they would with ordinary oil.

BEST IN THE LONG RUN
MARATHON

Change to MARATHON V•E•P OIL

The pioneer, heavy-duty oil with the important "extras." V. E. P. (with its "magnetic-like" film) prevents *dry* starts. *Stays put* at high temperatures. Protects bearings against corrosion. V. E. P. *keeps* engines clean, oil holes and lines open, valves and rings free. And there's an extra margin of safety against pressure and shock in V. E. P.'s triple-plus film strength.

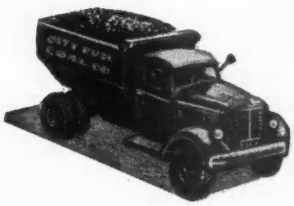
Let a Marathon Fleet Engineer tell you about our complete line of automotive oils and lubricants.

THE OHIO OIL COMPANY

Producers of Petroleum since 1887

GENERAL OFFICES: FINDLAY, OHIO. DISTRICT OFFICES: ROBINSON, ILL., INDIANAPOLIS, IND.

LONG mileage on SHORT hauls...



when your trucks roll on KELLYS!

Short hauls and city deliveries mean lots of stop-and-start driving . . . more wear and tear on your tires.

That's why so many "short-haul" truckers are changing to Kelly Commercial Heavy Treads. For only a slightly higher first cost, they get a lot more working rubber on the road—greatly increased mileage—and a lower cost-per-ton mile.

And they take recaps better—still further decreasing the final cost per mile.

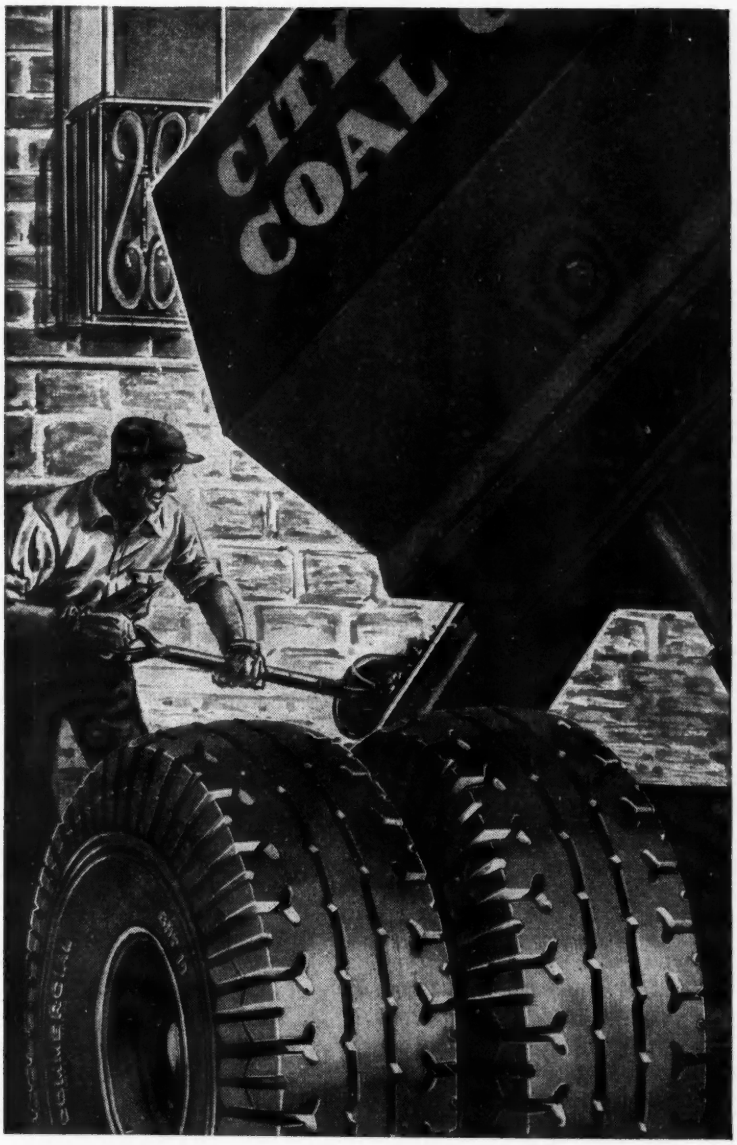
Every Kelly Truck Tire is completely up to date in improved design and materials. And they're built with the careful workmanship that has characterized Kellys for 55 years.

Kelly is the Trucker's Tire. There's a Kelly job designed for *your* particular type of work.

Try Kellys next and get your dividend in thousands of extra miles of service!

THE KELLY-SPRINGFIELD TIRE COMPANY
CUMBERLAND, MARYLAND

Know-how makes them Better!



KELLY REGISTERED | KELLY COMMERCIAL HEAVY TREAD | KELLY DUAL TRAC | KELLY LUG TRAC | KELLY RIB TREAD | KELLY DELIVERY TRUCK TIRE

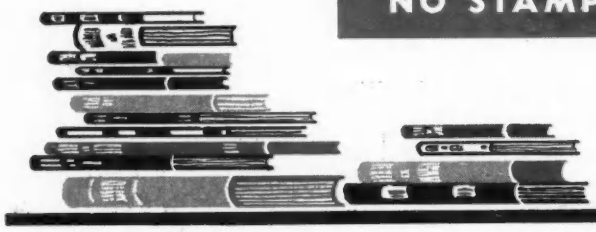
KELLY Springfield
THE TRUCKER'S TIRE

A TOUGH KELLY FOR EVERY JOB

3840-1

FREE PUBLICATIONS

USE FREE POSTCARD
NO STAMP NEEDED



A selected list of the latest literature—catalogs, pamphlets, charts — chosen to help fleetmen improve operation and maintenance

L38. Driving Tips

A new 36-page illustrated booklet covering scores of driving information for both truck and passenger car drivers is now available to the fleet field. While not strictly a safety book, suggestions are offered with operating information on a variety of subjects.

Valuable helps to drivers include chapters on curves and turns, night driving, driving in mist and fog, braking. One of the most practical suggestions is a pictorial chart showing stopping distances for dry pavement, wet pavement, on ice and packed snow, in relation to vehicle speeds from 20 to 80 miles per hour.

Traction and braking in slippery weather head other chapters while diagrams of lines of force, traffic habits and danger points show readers how to negotiate dangerous conditions. Of particular importance is the subject of signs and signals, material which help to make driving safer.

This booklet is a basic approach to the problems involved in driving, yet will provide timely information for both new and seasoned drivers. Write L38 on the free postcard for a copy.

L39. Frame Straightening

For operators who either do their own frame straightening, or want to know how the job will be done so they can check up on costs, here is a handy manual. This 30-page book shows in detail the Bear system of straightening or aligning passenger car and truck frames.

Illustrations cover types of misalignment, tools required for the job, and a list of pointers on how to diagnose the frame condition. Various problems in frame straightening are covered, with easily-read text supplemented with working drawings. Here is your guide to such problems as bent frame horn, sagged frame, sidesway in center, diamond frame and twisted conditions. Write L39 on the free postcard.

L40. Size and Weight Book

"Watch Your Weight," is a new edition of a one-page guide showing height, length and maximum gross weights permissible in each state—just brought up to date for trucks and truck trailers.

This handy chart is yours for the asking. Just write L40 on the free postcard and put it to work for you.

Late Product Flashes

A new "Rol-Air" flaring tool for copper, brass and aluminum tubing, and three new radiator faucets—developed by **The Imperial Brass Mfg. Co.**, Chicago, Ill.

A new Stillson pattern pipe wrench—offered by **The Electrolite Corp.**, Defiance, Ohio.

New Duro-chrome hand tool 6-point sockets in ⅜ and ½-in. square drives—now available from **Duro Metal Products Co.**, Chicago, Ill.

Klixon circuit breakers for use in low voltage dc circuits—developed by The **Spencer Thermostat Division of Metals and Controls Corp.**, Attleboro, Mass.

A new truck oil filter that pre-heats oil in cold weather by utilizing waste heat from the cooling system water—built by **DeLuxe Products Corp.**, LaPorte, Ind.

An alcohol-type anti-freeze known as Freez-Rem—newly developed by **Speco, Inc.**, Cleveland, Ohio.

Echlin heavy-duty condensers available in capacities of .20, .25, .30 mfd—available from **Echlin Mfg. Co.**, New Haven, Conn.

Winterset, a new 100 per cent glycol base permanent anti-freeze—announced by **Stone Distributing Co.**, Coshocton, Ohio.

Porta-Tank combinations for use with the Ramco 3-Up metal parts cleaner for removing gum, grease, paint, etc.—**Ramsey Corp.**, St. Louis, Mo.

An addition of 15 new pliers with end cutting nippers, long and short chain nose, needle nose, duck bills, puller and battery types—**J. H. Williams & Co.**, Buffalo.

A new medium hydraulic brake fluid providing a working range from —40 to 225 deg. F.—just announced by **The J. W. Kelley Co.**, Cleveland, Ohio.

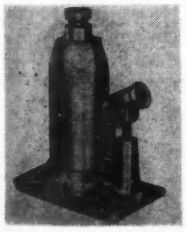
A ratchet-type load binder for easy and safe binding of industrial loads on trucks and trailers, providing an 8-in. take up and allowing the load to be adjusted enroute—produced by **American & Forge Mfg. Co.**, Pittsburgh, Pa.

NEW PRODUCTS

USE FREE POSTCARD FOR MORE DETAILS

Illustrating and reviewing briefly many of the newest developments in parts, accessories, shop equipment and tools. For more information mail free postcard

P152. Tool-Box Jacks



Walker Series 900, new type "tool box" jacks feature a projectile tank shaped like a heavy, armor piercing shell to withstand greater shock and distribute loads more evenly to the base. The tank design helps it resist damage from eccentric loadings, the manufacturer claims. The series includes six jacks with capacities ranging from 1½ to 20 tons. Walker Manufacturing Co., Racine, Wis.

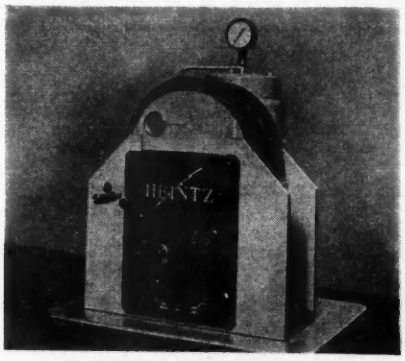
P153. Ignition Guard

An ignition device known as the Auto-Lite Point Guard, is designed to eliminate "blue points," a condition generally occurring in cold weather and caused by an abnormal current in primary which forms an insulating blue tungsten oxide on the contact points in the distributor of an automobile.

Placed in the primary circuit, either between the coil and the distributor, or between the ignition switch and the coil, the Point Guard is said to prevent the formation of blue tungsten oxide by limiting the flow of current through the points. The Electric Auto-Lite Co., Toledo, Ohio.

P154. Electric Brake Bonder

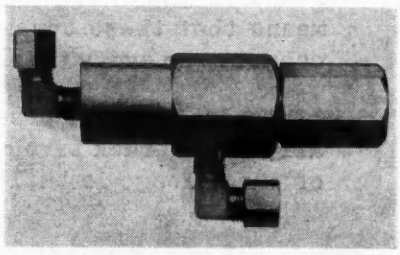
Features of this new electric brake bonder are accurately controlled heat, speed, and simplicity of operation.



Bonding is accomplished by confining the assembled shoe, bonding agent and lining between a pressure band and heated anvil. The tendency of the bonding agent to flow under the combined effect of heat and pressure is compensated with the pneumatic follow-up action of the anvil, thereby maintaining a constant pressure per square inch of lining surface of two hundred pounds or more. Cure is completed in four to seven minutes, depending upon lining adhesive manufacturers' specifications. James C. Heintz & Co., Inc., Cleveland, Ohio.

P155. Tank Drain

Dri-R-Air, a drain for compressor tanks, eliminates manual draining and reduces the possibility of frozen air

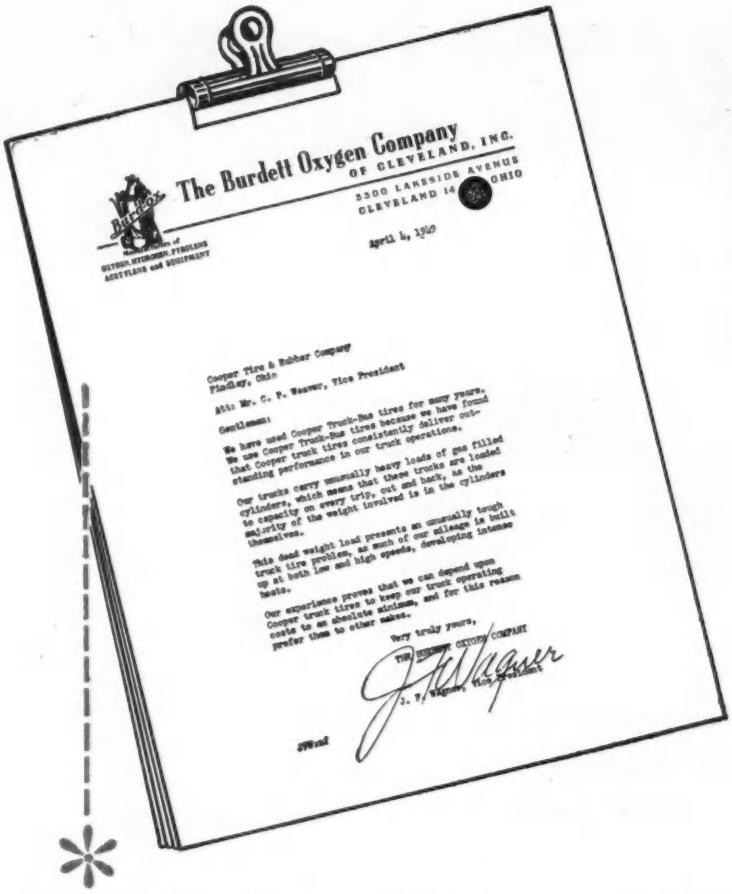


lines and slugs of moisture that often ruin spray-paint jobs and cause rust on materials being machined. Installation is accomplished with a few feet of ¼-in. copper tubing and a standard "L". The drain is made of non-corrosive, rust-proof brass with only one moving part. Quincy Compressor Co., Quincy, Ill.

P156. Storage Battery

The U. S. Super Powerlife battery is said to provide quicker starting and added electrical power for accessories, having three times the liquid reserve of ordinary batteries. Power-producing plates are given further protection by fiberglas mats and insulation has been improved by all-rubber separators. The battery requires water only once a season. U. S. Rubber Co., New York, N. Y.

(TURN TO PAGE 52, PLEASE)



profit by the experience of others

"Our trucks carry unusually heavy loads of gas filled cylinders, which means that these trucks are loaded to capacity on every trip . . .

"This dead weight presents an unusually tough truck tire problem, as much of our mileage is built up at both low and high speeds, developing intense heats.

"Our experience proves that we can depend upon Cooper truck tires to keep our truck tire costs to an absolute minimum . . ."

The Burdett Oxygen Company
Cleveland, Ohio

Costs Cut to a New Low by Cooper Distributed Stress Construction

Check the records of Cooper truck tire users and you'll find case after case where costs have been cut to a new and timely low. And the reason is Cooper Distributed Stress Construction — the tire development that places extra strength directly under the tread, plus extra strength at the shoulders and sides.

The result is a uniformly stronger, more resilient Cooper truck tire that runs cooler, runs longer because there are no weak points to cause localized flexing and high friction heat. Meaning that more original miles and more recap miles can now be yours — and without extra cost. Your Cooper truck tire dealer has the facts — so call, call him today. Cooper Tire & Rubber Company, Factories at Findlay, Ohio.

Users Say: Cooper truck tires make payloads more profitable.

1530-1

Pick the Jack that FITS YOUR FLEET

2-TON

SJ-18 *The Most Startling Advancement in Service Jack Design in a Decade*

Get this jack . . . 2-ton capacity . . . zip up service on your light vehicles! This revolutionary, *truly new* jack brings you the rigid but lightweight "unitized" frame — the maintenance-free "crown-gear control" —and the "turtle-shell" fully-enclosed construction. You also get important extra benefits originally created for bigger Blackhawk Jacks. Every shop superintendent should see it immediately!

Here's Why the Right Jack Pays Off

The wrong-size Hydraulic Service Jack is a labor-waster and shop-cost booster. A jack of *too-big capacity* for a *light* vehicle means slow maneuvering and unnecessary jacking time. And a jack with *too-little capacity* for a *heavy* vehicle creates back-breaking effort and danger for both jack and vehicle. So — check your jack capacities and vehicle weights today — and buy the *right* jack (or jacks) from your Blackhawk Jobber!

4-TON

S-4 *The World's Finest All-Purpose Service Jack*

This brute of a jack is safety-rated to handle any axle load up to 4 tons. Its leadership in the service jack industry remains unchallenged. The S-4 is extremely popular around rough repair work — on passenger cars and trucks within its broad power range. Exclusive, *more-for-your-money* features make it the best buy in its class.

7½-TON

S-15 *This Built-for-Action Giant is Reinstated by Popular Demand*

Here is 7½-tons of authentically-rated hydraulic power—just the right amount to handle axle loads of your super-big vehicles. The S-15 doesn't slow you up with excess weight nor waste-capacity to serve loads that "don't happen." Its "feather-touch" feature greatly reduces manual effort. Dropped from production during the war — here it is again, *because you fleet men asked for it!*

Picking the Right-Size Jack **is a cinch when you choose a *Blackhawk*. . . because Blackhawk makes the world's most complete line of Hydraulic Jacks. A Product of Blackhawk Mfg. Co., Dept. J-11119, Milwaukee 1, Wis.**

BLACKHAWK®

HYDRAULIC JACKS • "PORTO-POWER" • WRENCHES

2034-1

NEW PRODUCTS

USE FREE POSTCARD FOR MORE DETAILS

Continued from Page 49

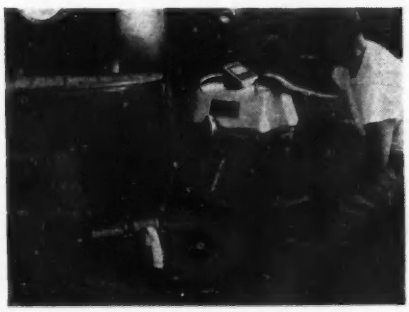
P157. Loading Dock Lift

The Wayne loading dock lift lowers or raises the rear end of the truck to dock height and accomplish the same purpose as the tilting ramp. It is a movable loading platform onto which heavy loads may be wheeled and raised to the truck. The platform is of non-skid plate 10 x 14 ft., lifted with full hydraulic cylinders and powered by air or electric pumping units. Capacities and lifting heights can be provided to suit individual requirements. Wayne Pump Co., Fort Wayne. Ind.

P158. Wheel Balancer

A new, streamlined model of the Electronic Wheel Balancer, is said to provide greater sensitivity to vibration caused by unbalance, easier operation, light weight and rugged design.

Operational advantages include the large, swiveled meter or unbalance indicator, which can be read by the operator from all positions, and the swivel mounting of the stroboscopic lamp which illuminates the wheel to



indicate point of unbalance. The entire unit, with balancer, pickup, spinner, cables and weight drawer on a base but 20 by 20 in. in size, is mounted on 4-in., ball-bearing casters for maximum portability. Stewart-Warner Corp., Chicago, Ill.

P159. Directional Signal

The new "920" truck directional signal, meeting all SAE and state requirements for Class A signals, consists of two lamps with red lenses for

the rear; two lamps with amber lenses for the front; the positive finger tip control switch unit; flasher and all hardware necessary for complete installation. It is made of bonderized steel and is finished in black baked enamel. The silverplated reflector is sealed against moisture and dust. Yankee Metal Products Corp., Norwalk, Conn.

P160. Oil Control Ring

A new oil control piston ring is composed of a series of segments which are interlocked so as to make it in effect a one-piece oil control ring. Continual flexing of the segments, plus the large open drain areas provide self-cleaning action.

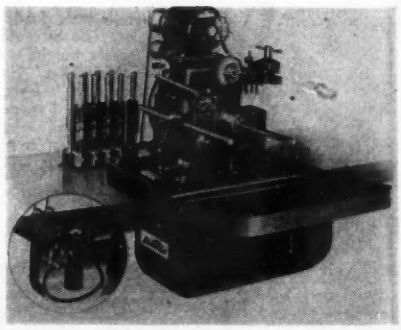
The ring is made from heat-treated high carbon steel instead of cast iron, and is light in weight, reducing pounding and wear on the sides of the piston ring grooves. The design of the ring is such that tension is derived from within itself. The ends butt together in the piston ring groove, and do not carry gap clearance. Individual segments allow just enough oil to flow through the ring to assure adequate lubrication of the cylinder wall, compression rings and piston bearing surfaces. The Toledo Steel Products Co., Toledo, Ohio.

P161. Two-Post Lift

A two-post lift with an 8000-lb capacity features accessibility and enables the mechanic to work in unrestricted comfort with ample head room and freedom from floor obstructions. Another feature of the lift is the ease with which it can be installed and the low installation cost resulting from both cylinders being stationary and the shallow front and rear pits. Concrete forms are furnished. Other features include multiple V-notched front supports, individual control system to permit raising or lowering of either post independently or in unison; rotatable rear superstructure for gas tank protection when front is raised higher than rear. Curtis Pneumatic Machinery Div., Curtis Mfg. Co., St. Louis, Mo.

P162. Wet Honing Machine

Sunnen's 1950 model wet honing machine designed for all types of pin fitting, bearing and bushing sizing, hydraulic brake cylinder rebuilding, is also used for small bore engines. Complete range covers hole diameters from .480 in. to 2.4 in.



Among the new features are rounded, non-snagging corners; a readily removable drain with slide extension to accommodate both long and short mandrels; and a honing oil tank that lifts off easily for cleaning. The new "unit design" provides for single handling of each sub-assembly. Sunnen Products Co., St. Louis, Mo.

(TURN TO PAGE 262, PLEASE)

Another Crescent Innovation!

CRESCENT-WIRY JOE MAROON PLASTIC CABLES

CRESCENT LEADS AGAIN! *Now*, the famous Crescent-Wiry Joe Maroon Cables are *plastic* to make them even better than ever before!

These advantages of plastic are universally established:

- **PLASTIC** is impervious to oil, water, grease, heat, abrasion, *and is highly resistant to acid.*
- **PLASTIC** is extremely flexible.
- **PLASTIC** *does not support flame.*
- **PLASTIC** is modern.

Add these features to the already outstanding list of Crescent-Wiry Joe Maroon Cable features and you have the *new* CRESCENT-WIRY JOE

MAROON PLASTIC CABLES!

√ *Check the wire on every job!*

WHEN NEXT IN OUR NEIGHBORHOOD, DROP IN—SEE HOW CRESCENT-WIRY JOE AUTOMOTIVE CABLE IS MADE FROM COPPER TO FINISHED PRODUCT IN ONE PLANT UNDER ONE ROOF

1531-1

10-TON TRUCK CAN'T L

NO IFS... NO ANDS... NO BUTS!

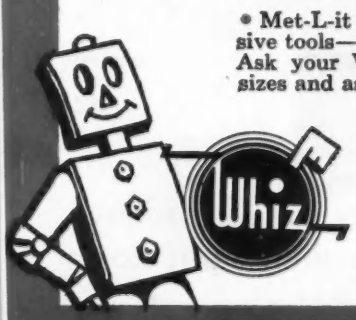
APPLY Met-L-it AND Met-L-it FIBER ACCORDING TO DIRECTIONS—AND GET

GUARANTEED PERMANENT ADHESION

Here Are More Reasons Why Met-L-it Saves You More Money on Body Repair Work:

- **Met-L-it Won't Blister . . .**
  You can use any paint or enamel on Met-L-it.
- **Met-L-it Won't Flake or Crumble . . .**
  You can feather-edge Met-L-it perfectly.
- **Met-L-it Does a "First Class" Job at Less Cost!**
  Equals any repair method being used today and lasts just as long.

• Met-L-it doesn't call for special skills or expensive tools—Met-L-it cuts labor and material costs. Ask your WHIZ jobber about Met-L-it package sizes and assortments, and their prices.



PRODUCTS OF

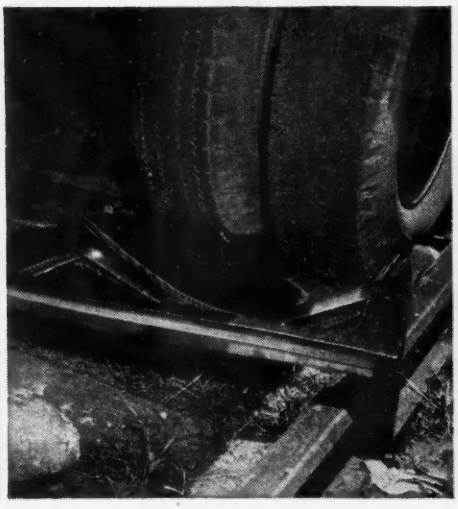
Hollingshead

LEADER IN MAINTENANCE CHEMICALS

REPAIRS RUSTED-OUT AUTO BODY AND FENDER SECTIONS—FILLS DENTS AND SCRATCHE

LOOSEN Whiz Met-L-it*

HERE'S SMASHING PROOF THAT Met-L-it HOLDS ON!



IRST WE PATCHED IT!

HE RUSTED-OUT AND DENTED ito door panel shown has been repaired two ways. Repair (A) was made by cov- ing the rusted-out area with Met-L-it iber, and then applying Met-L-it over e Fiber. Repair (B) is a deep dent filled ith Met-L-it alone. In both cases the etal was sanded to a clean, bare surface fore the Met-L-it was applied. The re- irs shown here have been feather-edged st as in a finished job.

THEN WE SMASHED IT!

WE ROCKED A 10-TON TRUCK back and forth over the repaired door. The two big wheels of the truck crushed and crumpled the metal of the door, and strained the Met-L-it repairs far more than the repairs would ever be strained in actual service. The door was bent and twisted—and so was the Met-L-it. These were exaggerated conditions, but we were out to demonstrate PERMANENT ADHESION.

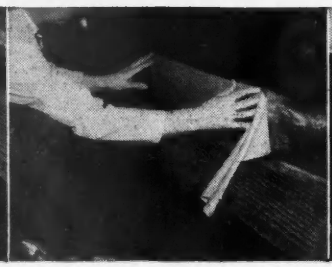
PROVED—PERMANENT ADHESION!

THE Met-L-it AND FIBER STAYED PUT! The tests proved that Met-L-it and Met-L-it Fiber adhere even under exaggerated strains and impact. Notice above that the Met-L-it is still perfectly feather-edged—hasn't cracked or crumbled in any part of the repairs. There is still a perfect bond between the metal and the Met-L-it! That's what we mean by GUARANTEED PERMANENT ADHESION.

NEW DEPENDABLE Product For Cold Metal Repairs!

PUT IT ON RIGHT—Met-L-it STAYS TIGHT

EFORE APPLYING FIBER, sand ean the metal surrounding the amaged area. Cut the Met-L-it iber to shape and dip in a shal- w pan of Met-L-it Solvent. se only Met-L-it Solvent— her solvents will destroy the iber's adhesive quality.



APPLY THE FIBER smoothly against the bare metal so that it makes full contact and follows the contour of the body section. When the Fiber has dried thoroughly, feather-edge it to surface contours.

APPLY Met-L-it by brushing, knifing or spraying. Put on several coats, allowing about one minute between coats for drying. Extend the Met-L-it coats about an inch beyond edge of Fiber. Allow to dry well.

3850-2

SAND Met-L-it with a medium grade sandpaper or disc. Met-L-it will sand down to a perfectly smooth feather edge.

PAINT Met-L-it as you would any bare metal. Met-L-it is not affected by enamel or lacquer thinners, and will not blister or check.

FOR MORE INFORMATION ABOUT

Met-L-it

CALL YOUR WHIZ JOBBER

*Patent Pending

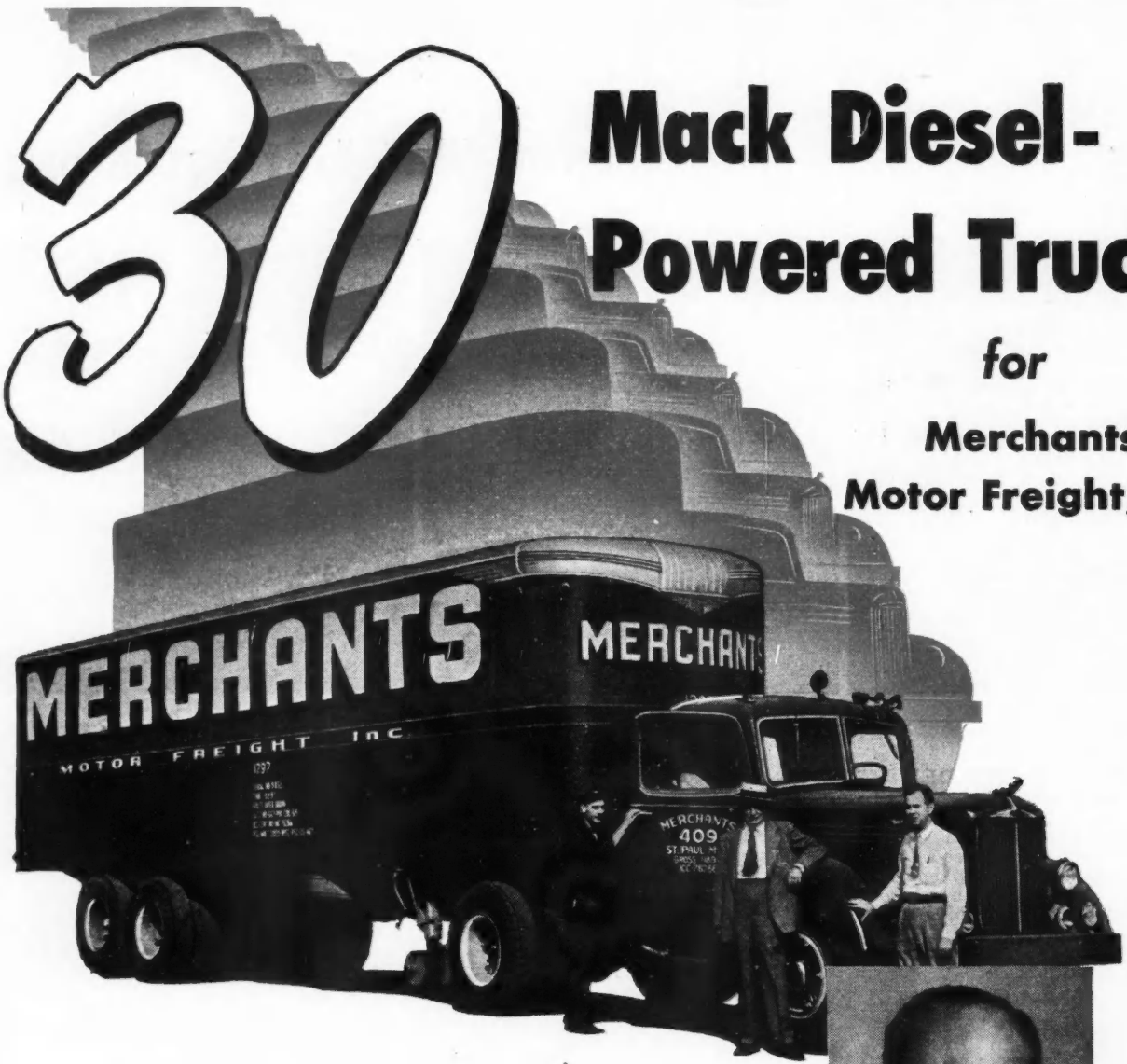
OR WRITE

R. M. Hollingshead Corporation
Camden 2, New Jersey

Dealers in Canada write to:
R. M. Hollingshead Company
of Canada, Ltd.
1130 Bay Street
Toronto, Ontario, Canada

TCHES EALS LEAKING GAS TANKS: AN IDEAL GLAZING MATERIAL — MADE BY THE 70-30 COLD PROCESS

30 Mack Diesel-Powered Trucks for Merchants Motor Freight, Inc.



Stanley L. Wasie, president of Merchants Motor Freight, Inc.

Prominent Midwest Carrier Joins in Nation-wide Preference for Mack Diesels

● The country over, progressive operators like Merchants Motor Freight of St. Paul, Minnesota are turning to thrifty diesel-powered Macks.*

And with good reason! Mack diesel engines are the only diesels designed and built for a specific line of trucks . . . assurance of complete coordination of both engine and chassis . . . maximum efficiency all around. Mack diesels give outstanding economy — twofold savings in more miles per gallon at less cost per gallon. They're the most highly developed diesel engines in the automotive field because they're the result of engineering experience gained in producing more diesel-powered trucks than any other manufacturer.

Your nearest Mack branch or dealer will explain how it all combines to cut down your costs and build up your profits.

Latest registration figures show that Mack far outstrips the field in sales of diesel-powered trucks.

IT'S PART OF THE LANGUAGE:

"Built Like a Mack Truck"

Mack Trucks, Inc., Empire State Building, New York 1, New York. Factories at Allentown, Pa.; Plainfield, N.J.; New Brunswick, N.J.; Long Island City, N.Y. Factory branches and dealers in all principal cities for service and parts. In Canada: Mack Trucks of Canada, Limited. 7799

3811-1

Line Number	Make and Model	Chassis List Price	Minimum Standard	Maximum Standard	Gross Vehicle Weight for Normal Service	Chassis Weight (See definition)	Standard Front and Rear	Maximum Authorized Tire Size (Duals unless noted)	Make and Model	No. of Cylinders, Bore and Stroke	Displacement	Comp. Ratio	Torque lb. ft.	Max. Brake H.P. at R.P.M. Given	Main Bearings Number and Diameter	Main Bearings Length	Governor Standard	Make and Model	Forward Speeds	Make and Model	Gear and Type	Drive & Torque	Gear Ratio Range in High	Make and Model	Make Location Type Operation	Service Lining Area	Service Drum Area	Service Drum Material	Hand Location Type	C-A Dimensions (Min. Std. W. B.)	Side Rail Dimensions	Frame Type
1	FWD		132	168		4470	8.25/20D	10.00/20	Wau BZ	6-4¼x4¼	320	5.9	237	104-3000	7-2½x10¼	7-2½x10¼	Y Own H	5 Own H	10 Own H	5 Own H	8F H6.6	H6.6	-9.01 Own H	L4IHV	391	807 a	T4	79½	9x3½	F
2			132	168		4500	9.00/20	10.00/20	Wau MZA	6-4¼x4¼	404	5.6	291	126-2600	7-2½x12½	7-2½x12½	Y Own H	5 Own H	10 Wis SD462	5 Own H	8F H6.6	H6.6	-9.01 Own H	L4IHV	391	807 a	T4	89½	9x3½	F
3			132	168		4500	9.00/20	10.00/20	Wau MZA	6-4¼x4¼	404	5.6	291	126-2600	7-2½x12½	7-2½x12½	Y Own U	5 Own U	10 Wis SD462	5 Own U	8F H6.6	H6.6	-9.01 Own U	L4IHV	512	985 a	T4	89½	9x3½	F
4			132	168		4105	9.00/20D	12.00/20	Wau BKZ	6-4¼x5½	527	5.6	391	129-2600	7-2½x13¾	7-2½x13¾	Y Own U	5 Own U	10 Wis SD462	5 Own U	8F H6.6	H6.6	-9.01 Own U	L4IHV	512	985 a	T4	90	10½x3½	O
5			132	168		4105	9.00/20D	12.00/20	Wau BKZ	6-4¼x5½	527	5.6	391	129-2600	7-2½x13¾	7-2½x13¾	Y Own U	5 Own U	10 Wis SD462	5 Own U	8F H6.6	H6.6	-9.01 Own U	L4IHV	539	804 a	T4	90	10½x3½	O
6			132	168		4115	11.00/20D	12.00/20	Wau 140GK	6-4¼x5½	554	6.4	460	138-2600	7-2½x13¾	7-2½x13¾	Y Own B	5 Own YU	10 Tim 1758W	5 Own YU	8F H5.7	H5.7	-10.8 Own YU	L4IHV	640	1106 a	T4	90	10½x3½	O
7			132	168		4115	11.00/20D	12.00/20	Wau 140GK	6-4¼x5½	554	6.4	460	138-2600	7-2½x13¾	7-2½x13¾	Y Own B	5 Own ZU	10 Tim 1758W	5 Own ZU	8F H6.6	H6.6	-11.4 Own ZU	L4IHV	584	976 a	T4	90	10½x3½	O
8			132	168		4125	11.00/20D	12.00/20	Wau 145GK	6-4¼x5½	554	6.4	460	138-2600	7-2½x13¾	7-2½x13¾	Y Own M	5 Own YU	10 Tim 1758W	5 Own YU	2F H5.9	H5.9	-9.8 Wis F409W	WW4IA	584	976 a	T4	90	10½x3½	O
9	(D)		132	168		4155	12.00/20D	12.00/24	Wau 145GK	6-4¼x6	779	6.2	585	186-2000	7-3¼x17¾	7-3¼x17¾	Y Own M	10 Tim 79721W	10 Tim 1758W	10 Tim 1758W	2F H5.9	H5.9	-9.8 Wis F409W	WW4IA	584	976 a	T4	90	10½x3½	O
10	(D)		132	168		4164	12.00/20D	12.00/24	Bu DC844	6-5¼x6½	844	7.3	605	180-1800	7-3¼x17¾	7-3¼x17¾	Y Own M	10 Tim 79721W	10 Tim 79721W	10 Tim 79721W	2F H6.7	H6.7	-9.2 Wis F409W	WW4IA	614	1030 a	T4	90	10½x3½	O
11	F.W.D.		Opt	Opt		4215	9.00/20D	10.00/20	Wau MZA	6-4¼x4¼	404	5.6	291	129-2800	7-2½x12½	7-2½x12½	Y Own H	10 Own H	10 Own H	10 Own H	SF L	L	** -7.45 Own H	L6IHV	647	1281 a	T6	Opt	9x3½	F
12			Opt	Opt		4210	11.00/24D	11.00/24	Wau 145GK	6-5¼x6	779	6.2	585	186-2000	7-3¼x17¾	7-3¼x17¾	Y Own M	10 Wis SD462	10 Wis SD462	10 Wis SD462	2F L	L	** -9.06 Wis F409	WW61A	1080	1680 a	T6	Opt	10½x3½	P
13	(D)		Opt	Opt		4216	11.00/24D	11.00/24	Bu DC844	6-5¼x6½	844	7.3	605	180-1800	7-3¼x17¾	7-3¼x17¾	Y Own M	10 Wis SD462	10 Wis SD462	10 Wis SD462	2F L	L	** -5.6 Wis F409	WW61A	1080	1680 a	T6	Opt	10½x3½	P
14	Truckstell		144	209	29000	7350	7.50/20	8.25/20-10	Ford	8-3-¼x3¾	239.6	8.180	100-3800	3-2.49	24.9	N Ford ‡‡	12 Ford				HyF R	R	** -7.2 Ford	F6IHV	498	836 Co	TX	64	8x3x.46	TL
15			126	185	30000	8200	7.50/20	8.25/20-10	Ford	8-3-¼x3¾	239.6	8.180	100-3800	3-2.49	24.9	Y Ford ‡‡	12 Ford				HyF R	R	** -7.2 Ford	F6IHV	498	836 Co	TX	71	8x3x.46	TL
16			151	217	29000	8040	7.50/20	8.25/20-10	Chev	6-3-¼x3¾	235.6	6.192	93-3100	4-.....	.....	N Chev ‡‡	12 Chev				HyF R	R	** -6.17 Chev	C6IHV	506	780 Co	2I	68	9¾x3x¼	O
17			125	192	30000	8400	7.50/20	8.25/20-10	Chev	6-3-¼x3¾	235.6	6.192	93-3100	4-.....	.....	Y Chev ‡‡	12 Chev				HyF R	R	** -6.17 Chev	C6IHV	506	780 Co	2I	69	9¾x3x¼	O

Truck Specifications

Showing New Models and Revisions Since Last Issue

The specifications of new truck models tabulated at left and the revisions noted below have been received from truck manufacturers since publication of the Commercial Car Journal Truck Specifications Table in the October, 1949, issue. Readers are requested to make note of these changes. Publication of the entire Specifications Table will be resumed in the December, 1949, issue.

DATA SUPPLIED BY MANUFACTURERS AND TABULATED BY

COMMERCIAL CAR JOURNAL

American-Coleman

Three changes have been made on model G-55. Chassis weight has been increased 350 lb to 11,750; cylinder bore is 4½ in.; and brake lining area is 638 sq in.

Dodge

Specifications for the new Dodge B-2 job-rated trucks have just been released by the Chrysler Corp. and will be published in full detail in the December issue of CCJ. However, condensed specifications of this new line were published on page 83 of the October issue in connection with the description of the models. It is indicated that basic Route Van models will continue under the designation of B-1-DU and B-1-EU without change in specifications.

Duplex

Bendix-Westinghouse service brakes are used on the following models: SH-501, JHA, JH-558, KHA, L, RH-6 and L-6.

Federal

Revised torque and brake horsepower specifications have been released for models listed in the following table. Where no figure is shown, data are unchanged.

Model	Torque ft Lb	Max Brake hp at Given rpm
15M, 16M, 16M2	...	93 @ 3400
18M, 18M2	192	98 @ 3200
25M, 25M2	...	103 @ 3200
29ML, 29ML2, 29MLA	...	131 @ 3200
35M, 35M2	...	140 @ 3000
45M, 45M2, 55M2, 55MA	347	158 @ 2800
60MA, 60M2	385	.....
65M2	466	.....
663MA, 664MAB, 664MA, 65MA	466	205 @ 3000
629M, 629ML	...	131 @ 3200
635M	...	140 @ 3000
645M	347	.....

Federal 1950 model production began on Oct. 1 with serial number 150,001.

On models 635M and 645M, the transmission make and model has been changed from Clark model 270VO to Clark model 290VO.

Ford

On models 9H6T-84 and 9R6T-84, the frame has a reinforcement, 6.58 x 2.21 x 1.25 in., extended to include front spring rear brackets and rear spring front bracket. This frame is of the channel type, tapered front and rear, reinforced with liner.

FWD

Revised specifications for all models are shown in table at left.

Peterbilt

The Timken 36000W front axle has been replaced by Timken model FE900DPA on models 280, 350 and 360.

Reo

The gross vehicle weight specification for normal service on model D-19EX has been changed from 15,200 to 16,000 lb.

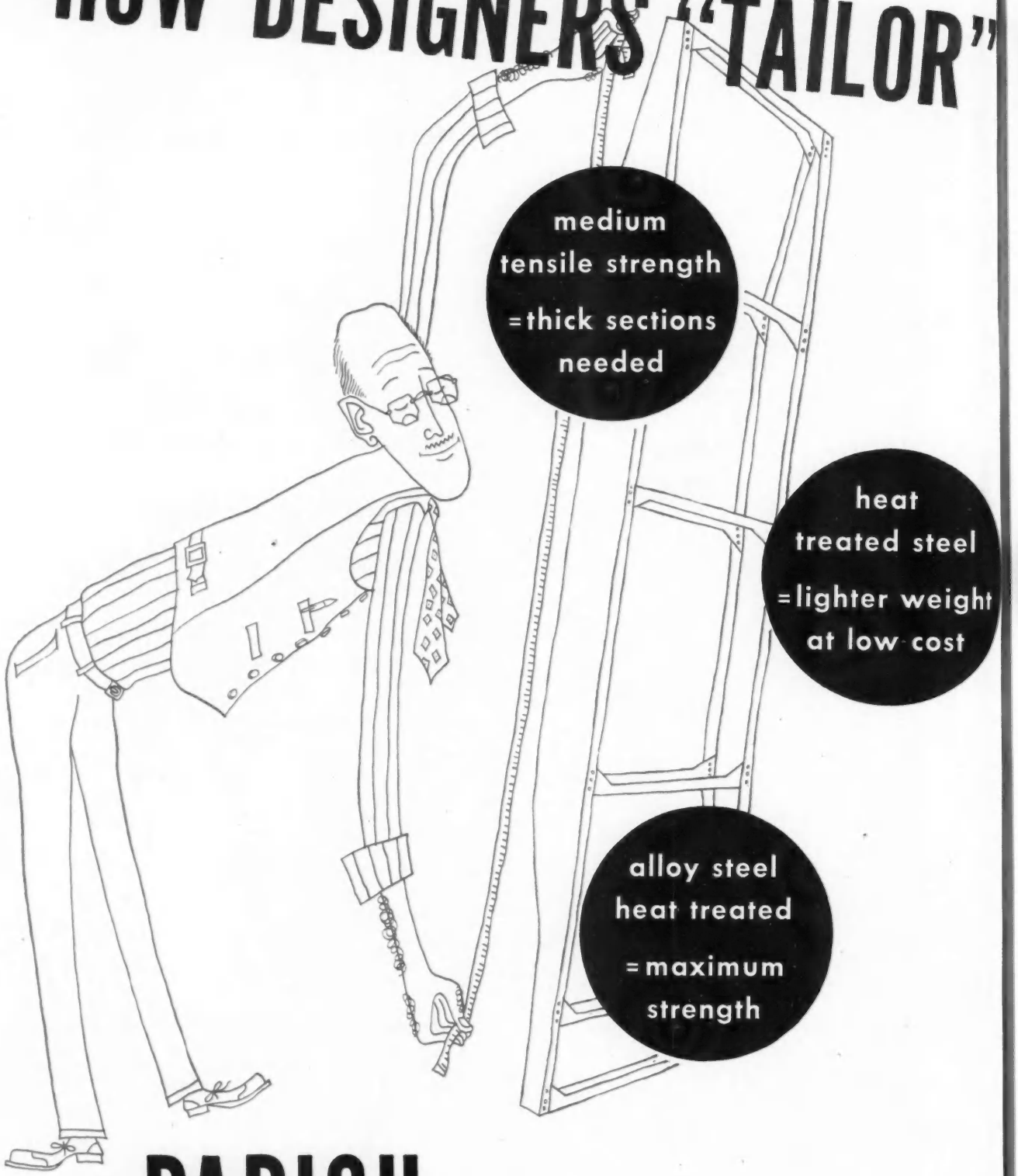
Truckstell

The maximum authorized tire size on models C2X28 and C2X29-O has been increased to 900/20-10. GVW on models C4X28 and C4X29 is 28000 and 29000 respectively. Rear axles on models F2X28-7, F2X34-7, F4X34 and F4X38 are full-floating.

Four new models have been added, details of which are shown in the table at left.

See October issue, page 85 for specifications of other models

HOW DESIGNERS "TAILOR" F



ONLY **PARISH** STEEL

HEAT TREATED HEAVY DUTY FRAMES GIVE YOU THE S

FRAMES TO FIT YOUR NEEDS

Ask any truck frame designer. He will tell you that pound-for-pound, *heat treated steel* heavy duty frames give you more strength, at less cost.

1 Using a material with lower tensile strength than heat treated steel, the designer adds thickness to highly stressed sections. That adds to the weight as well as the cost of the finished frame.

2 Working with the strength of *heat treated* steel, you can safely cut down thickness of sections to make substantial savings in weight and cost. Heat treatment gives the steel greater resistance to fatigue and crystallization, *which means longer frame life.*

3 For extra heavy duty frames, the only economical material is heat treated *alloy steel.* Where *maximum* strength is needed, it is good business to use the strongest frames money can buy . . . Parish Heat Treated *Alloy Steel* Frames.

To fit the frames to your jobs, ask us for complete information on the properties of Parish Heat Treated Frames. Use our Engineering Service Department as your own technical laboratory, at no obligation.

PARISH PRESSED STEEL COMPANY
subsidiary of Dana Corporation READING, PA.

Western Representative: **F. SOMERS PETERSON CO.**
524 Falsom St., San Francisco, Cal.
413 East 12th St., Los Angeles, Cal.

STRENGTH OF STEEL
at no sacrifice of payload!

1450 · 2

New Truck Registrations by Makes by States*

STATE		Autocar	Brockway	Chevrolet	Diamond T	Divco	Dodge	Federal	Ford	FWD	GMC	International	Kenworth	Mack	Pontiac	Reo	Sterling	Studebaker	White	Willys	All Others	Total
Alabama	August			682	1		229		408		185	116		6	1	1		82	3	53	2	1,767
	8 Mos.	1		5674	15	14	1558	9	2368		1253	873		55	3	25		752	74	481	28	13,183
Arizona	August			138		7	49		123		35	14				1		38	1	15	3	424
	8 Mos.	1		1282	3	18	443	3	868	2	303	220	3	4	1	21	2	337	13	162	39	3,703
Arkansas	August			954	3		264		773		275	199		3	1	11		154		81	2	2,720
	8 Mos.	2		6012	43		1470	2	3284	1	1343	965		11	1	80		932	26	699	26	14,897
California	August	12		1494	13	17	534	5	963	10	442	344	11	8	2	9	4	281	35	86	24	4,294
	8 Mos.	69	18	13833	159	313	4774	23	6156	15	3723	2610	82	125	10	125	44	2817	272	1050	224	36,442
Colorado	August			395	10	1	129		221	1	105	92		1		5		91	3	42	2	1,098
	8 Mos.	1		3212	59	9	1063	9	1364	2	803	774		7	1	22		571	32	443	12	8,384
Connecticut	August	4	1	195	6	6	80		174		49	73		11		2		29	6	19		655
	8 Mos.	32	18	1518	50	54	589	18	849	5	354	540		96	1	22	1	270	27	197	20	4,661
Delaware	August	1		90		1	30		75		21	30			1			11	1	10	1	272
	8 Mos.	4	4	699	14	2	216	1	466		144	208		2	3	3		81	13	39	6	1,906
Dist. of Columbia	August		3	86	2	4	82		42		18	20		1				3	5	12		278
	8 Mos.	24	5	588	14	44	327	16	395		165	198		27	7	12	3	50	27	45	10	1,957
Florida	August			687	8	1	253		382		130	134		28	1	12		143	4	101	3	1,887
	8 Mos.	2		4645	80	35	1566	12	2174		851	926		123	1	57		753	76	621	39	11,961
Georgia	August			1003	5	5	299		656		210	187		14		6		167	7	27	1	2,587
	8 Mos.	2	1	7309	89	11	2265	17	4375		1437	1696		115	31	105		1198	121	727	32	19,531
Idaho	August			235	8	1	93	3	109		114	98		1		5		84	2	64	5	622
	8 Mos.	1		1416	60	1	557	7	689	8	553	538	33	11		23		480	12	432	22	4,843
Illinois	August	3	1	1870	44	25	495		1036		307	454		25		14		268	30	51	15	4,640
	8 Mos.	60	10	13011	365	176	4108	38	5890	14	2313	4109		119	12	195	2	1888	450	900	127	33,885
Indiana	August	1	3	858	6	7	302	3	486		170	298		12		7		210	25	52	4	2,458
	8 Mos.	12	7	5250	76	90	1845	19	2840	2	1440	2011	1	76	7	80		1360	194	502	55	15,868
Iowa	August			849	13	2	270		557		162	377		14	1	6		150	6	35	5	2,449
	8 Mos.	6		6544	124	23	2049	8	3143	9	1141	2190	1	55	7	58		1148	51	557	54	17,158
Kansas	August			638	6		151		395		158	186		1		4		93	6	49	2	1,689
	8 Mos.		1	6564	69	17	1717	24	2755		1370	1729	1	8	9	59		1070	51	438	33	15,915
Kentucky	August			683	6		190	3	498		182	195		1		3		83	12	95	3	1,954
	8 Mos.	3	1	5149	66	23	1435	16	2628	1	1204	1227		32	4	35		615	89	1066	32	13,626
Louisiana	August			654	9	3	178		552	1	194	146		6				116	5	79	5	1,948
	8 Mos.	2		4490	68	13	1316	4	2868	2	1129	969		43	2	20		842	58	440	49	12,315
Maine	August		1	122			40		59		54	41		3	1	1		17		14		363
	8 Mos.	5	12	1444	3	6	432	5	696		490	440		47	4	39	1	234	32	150	13	4,053
Maryland	August	3	3	297	2		121	1	220		69	90		6		5	1	38	13	13	2	884
	8 Mos.	31	38	2410	27	36	991	27	1300		468	699		84	4	46	1	277	83	178	34	6,734
Massachusetts	August	6	2	329	10	10	179		233		69	103		23		7	2	56	15	23	3	1,070
	8 Mos.	88	64	2612	50	102	1265	8	1668	6	577	872		163	3	59	34	492	156	196	16	8,431
Michigan	August	2		1255	8	23	266	2	1056		221	189		13		7		100	6	34	7	3,189
	8 Mos.	24	3	9032	73	184	2487	41	5830	2	1816	1484		94	7	68		985	122	485	96	22,613
Minnesota	August			870	9	7	214	1	539		124	277		42		1		227	5	26		2,342
	8 Mos.	47		5896	62	42	1615	16	2925	4	1068	1859	5	112	8	16		1362	52	320	50	15,459
Mississippi	August			681	1		178	2	439		231	184		3		1		94	4	35	1	1,834
	8 Mos.	1		5073	32		1391	3	2345		1376	881		23		24		676	25	462	24	12,336
Missouri	August	1		916	8	11	239		410		198	151				5		98	13	34		2,084
	8 Mos.	6	1	8408	58	72	2389	1	3215		1745	1624		44	3	91		1002	188	885	38	19,550
Montana	August			336	4	1	198	1	222		114	137				8		69	3	49	1	1,053
	8 Mos.	5		2071	61	5	673	12	1112	7	700	733	13	4	1	48		485	18	645	18	6,811
Nebraska	August			540	13	1	107	1	349	1	124	245		2		1		99	6	69	2	1,560
	8 Mos.		2	4303	192	3	1101	10	2095	7	1007	1526	9	12	2	18		888	47	769	42	12,033
Nevada	August			57			26	1	57		17	11						22		5	1	196
	8 Mos.	1		392	2	1	134	2	248		131	99		2		3		137		88	6	1,246
New Hampshire	August	1		51		2	24		53		17	10						5		6	1	170
	8 Mos.	4	7	745	15	13	284	2	506		197	228		36	1	9	1	85	8	97	5	2,245
New Jersey	August	12	17	536	15	8	206	12	367	2	119	164		34	4	7	1	50	33	54	4	1,645
	8 Mos.	82	115	4544	119	89	1636	57	2403	14	1363	1402	1	246	31	54	4	573	223	537	82	13,575
New Mexico	August	1		286	1	1	91		101		101	50		4				65	1	12	2	716
	8 Mos.	2		1881	28	3	614	2	648		504	315		17		11		246	23	122	28	4,544
New York	August	16	46	908	36	26	585	6	608		298	398		128		38	2	173	101	75	39	3,684
	8 Mos.	261	431	9075	406	274	5125	124	5347	37	2880	3520		855	19	303	14	1488	677	1124	265	32,225
North Carolina	August	3		794	2	3	271		539		192	154		20		30	1	110	16	45	12	2,192
	8 Mos.	12	1	6352	29	24	1681	9	3299		1039	1250		191		80	3	863	119	582	106	15,840
North Dakota	August			499	7		105	4	358		78	180				2		97	2	21		1,353
	8 Mos.	6		2100	56	3	520	17	1247		409	865		2		7		419	7	241	9	5,908
Ohio	August	2		1043	13	24	440	2	777	1	196	346		15	6	14		147	49	66	2	3,143
	8 Mos.	48	9	9377	152	254	3518	93	4741	7	1644	2662		134	33	108		1388	460	837	88	25,553
Oklahoma	August	1		681	6		228		418		181	207		4		9		129	11	55	5	1,933
	8 Mos.	7		5499	21	21	1806	3	2546	6	1233	1465	1	20	11	51		891	73	611	24	14,289
Oregon	August	1		412	2		146	1	289	1	143	108	6	3		1		62	8	40	4	1,227
	8 Mos.	16		2946	35	28	1178	17	1604	4	943	8[illegible]	48	92	4	25	6	533	76	507	72	8,975
Pennsylvania	August	15	32	1303	27	6	743	5	1076		409	[illegible]		85		17	2	231	83	84	13	4,671
	8 Mos.	133	204	9802	234	55	4612	52	5750	4	2668	[illegible]		453	1	148	20	1732	543	967	156	30,718
Rhode Island	August	1		61	2	4	27		42		8	[illegible]		2	1	3		15	5	3	1	208
	8 Mos.	49	3	719	30	69	323		544		157	[illegible]		47	6	16	8	134	33	102	16	2,553
South Carolina	August			492	5	1	143		302		12[illegible]	[illegible]2		6				53	7	35	2	1,240
	8 Mos.	9		3255	19	10	1059	1	1550	3		[illegible]1		79	3	17		390	54	239	16	7,935
South Dakota	August			285	4		61		140			44	6	1		1		49		25		746
	8 Mos.			1917	87	2	583	5	918			967	6	4	1	12		396	7	383	22	5,697
Tennessee	August	2		715	4	3	267		442			110		12		1	1	111	11	63	1	1,967
	8 Mos.	5	4	7540	79	24	2189	43	3066		[illegible]4	1867		126	9	128	1	948	184	781	80	19,056
Texas	August	11		2122	17	2	885	1	1540		792	648	1	14		7		407	35	203	31	6,716
	8 Mos.	49	2	16170	109	88	5937	12	8266		4820	3909	10	111	1	96		2827	287	1881	365	44,740
Utah	August			134	5		56		97		63	48		1		2		30	1	13	1	451
	8 Mos.			1284	44	8	449	12	688	4	448	456	12	18	3	23	1	296	20	207	23	3,976
Vermont	August		1	48			22		43	1	20	24		2	1	1		13		2		178
	8 Mos.	1	9	738	11	5	288	8	435	1	250	384		8	3	18		250	9	210	12	2,640
Virginia	August	5		651	2	8	250	1	390		146	138		16		3		94	14	55	7	1,780
	8 Mos.	20	28	5671	47	23	1617	12	2702		1044	1121		96	1	41		737	100	522	44	13,826
Washington	August			347	11	3	130		289		107	111		3		10		82	6	36	6	1,142
	8 Mos.	9		3058	50	41	1260	11	1816		909	983	39	36	3	44	10	831	68	479	55	9,500
West Virginia	August			304	1	2	123	1	281		109	93		4		1		44		71	9	1,043
	8 Mos.	2		2443	30	10	1025	9	1440	16	634	564		23	2	26		313	46	711	32	7,326
Wisconsin	August	1		1017	9	11	248	1	473	1	165	321		24	1	7		143	12	50	9	2,493
	8 Mos.	12		5533	101	103	1597	20	2548	38	1055	1892		76	10	89	3	926	127	444	109	14,683
Wyoming	August			125	3		25		65		33	41		1				17		15	1	326
	8 Mos.	1		1018	50		303	2	493	3	239	297	2	7		15		201	6	283	9	2,929
Total	August, 1949	105	110	29698	369	237	10190	57	19933	19	7551	8331	24	603	21	276	14	4950	615	2201	245	85,539
Total	August, 1948	204	196	25891	1018	446	10184	281	20826	44	6852	10583	43	796		959	39	4844	876	7624	417	91,923
Total	8 Months, 1949	1157	998	230464	3685	2419	77380	862	117005	233	54206	61001	267	4171	274	2673	159	38067	5437	24644	2749	627,831
Total	8 Months, 1948	1888	2077	205717	7649	4109	78928	3221	162613	650	47555	92689	286	7170		8246	323	33464	8175	53757	3959	720,476

* Data from R. L. Polk & Co.

. . . and you'll get increased mileage, too

ALREADY in full production, the Johns-Manville Asbestos Brake Block has an improved formulation that results in increased mileage.

But that's not all.

Your brake drums will wear better too . . . because the new J-M Brake Block is the result of a scientifically *balanced* formulation that wears slowly, evenly, without costly scoring or checking of drum surfaces.

All this has been proved on the Heat Check Analyzer, an exclusive J-M laboratory device for checking both block life and drum life. And these laboratory tests have been carefully checked against actual field results.

You can prove it too . . . by trying the new J-M Brake Blocks on your next brake job. You'll have both blocks and drums giving you bonus mileage . . . bonus mileage that means lower operating costs.

PRODUCERS OF THE FAMOUS
4-STAR FLEET TESTED SETS

Johns-Manville

JM PRODUCTS *Asbestos*

BRAKE LININGS
BRAKE BLOCKS
CLUTCH FACINGS

FRICTION MATERIALS

1945-1

PROFITS ROLL IN WHEN YOUR FLEET KEEPS ROLLING!

You name the job...GILLETTE has the tire to do it better!

GILLETTE SUPER-RIBBED

Exclusive shoulder design throws off the heat. Special shock shields absorb sudden impact, guard against blowouts. Super-Ribbeds keep hauling cost to a minimum, help keep your schedules on time.

GILLETTE SUPER DELIVERY

With new, improved rayon construction for greater strength and less heat. 25% more tread depth . . . wears evenly, gives added protection against blowouts and punctures. You'll get up to 45% more miles at normal speeds.

GILLETTE CONSTRUCTOR

Here's a tire that will carry massive loads. 60% greater tread depth withstands the most bruising wear. Self-cleaning lugs give sure traction. Shock shield construction gives extra inner strength. You get more power efficiency and low operating and maintenance cost.

Here's one sure way to help meet time and delivery schedules. For every type of truck there's a fine, rugged Gillette tire to meet its particular needs. From the lightest panel delivery to the largest earth mover, each Gillette tire gives maximum service at lower cost per mile. And because Gillette tires are designed to throw off heat faster, they give you longer smooth-rolling, fuel-saving miles. See your friendly Gillette dealer today. Let him help you keep your trucks running at peak efficiency with his special, expert fleet service.

A BEAR FOR WEAR
GILLETTE TIRES
DIVISION OF UNITED STATES RUBBER COMPANY

GILLETTE TIRES

DIVISION OF UNITED STATES RUBBER COMPANY

3840-1

Everybody Wins...

WHEN YOU FEATURE PERFECT CIRCLE POWER SERVICE

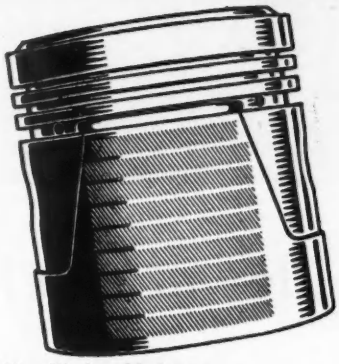
You Win because you sell more parts—give better, quicker overhauls—profit more from shop time—and gain *new* customers along with repeat customers! *Your Customers Win* for they get better repairs and faster service—at big savings!

All features of Perfect Circle Power Service — the Nurlizer, Manulathe, Plastigage, Taper Shim Bearing Adjusters and PC *Custom Made* Piston Ring Sets —work together to step up your business and your profits. Dealers everywhere are acclaiming this business-getter-and-builder for what it's doing for them now . . . when more business is really appreciated! Read about the service here, then get the full story from your PC distributor, or write Perfect Circle Corporation, Hagerstown 6, Indiana.

NURLIZER—

Sizes Pistons Quickly, Permanently!

PRAISED by dealers everywhere. By permanently displacing metal on the piston thrust faces, Nurlizing accurately increases the diameter to a desired, predetermined size exactly where the increase is most needed. At the same time, it gives the piston an interrupted surface that assures better lubrication, permits closer fit without danger of scuffing or scoring. Nurlizing stabilizes the piston, eliminates piston slap!



New life for old pistons — longer life for new pistons!

TAPER SHIM

Bearing Adjusters

CUSTOM MADE for the specific bearing and clearance correction required. Taper Shim Bearing Adjusters are individually packaged, pre-cut to avoid delay. Adjustment is better, too, because they are scientifically tapered for accurate vertical and horizontal fit.

PLASTIGAGE—

Saves Time and Labor!

BEARING CLEARANCES *should* be checked on *every* engine overhaul, if the job is to give complete satisfaction. PLASTIGAGE saves as much as ⅔ the time used by older methods. Profits go up as labor cost goes down!

CUSTOM MADE PISTON RING SETS!

ALL FACTORS—engine condition, make, model and type of service—are considered when determining the types of rings that go into *Custom Made Sets* for each particular installation. Whatever the combination, it has been selected from 62 specific designs proved to increase power, save gas and stop oil pumping most effectively.

Perfect Circle Corporation
Hagerstown, Indiana

Perfect Circle

The Most Honored Name in Piston Rings

1842-1

More hauls . . . fewer overhauls

The less often your engines need to be overhauled, the better you like it—*naturally!*

For fewer overhauls mean greater availability—more hauls and lower maintenance costs.

We suggest, therefore, that you most seriously consider using Gulflube Motor Oil H.D. in your engines.

This outstanding heavy-duty motor oil will help keep your engines at top performance, and for mighty good reasons:

Gulflube Motor Oil H.D. provides a particularly strong oil film and superior lubrication under the toughest operating conditions. For it has a rich, full paraffin base.

Gulflube Motor Oil H.D. is, also, a *fully detergent* oil. Rings stay clean and free, insuring better compression and proper oil control.

Furthermore, crankcase foam is prevented under all conditions of speed and temperature because Gulflube Motor Oil H.D. contains a patented anti-foam agent.

You owe it to yourself to find out how this quality oil will help you get cleaner engines and lower maintenance costs. Why not call the Gulf Automotive Service Engineer *now*, and discuss your lubrication and maintenance problems with him?

GULF

GULF OIL CORPORATION · GULF REFINING COMPANY

Offices in principal cities in 30 states

1288-1

COMMERCIAL CAR JOURNAL'S

Annual BUYERS' DIRECTORY Number

For Fleet Operators

PURPOSE . . .

On following pages readers will find listings of hundreds of fleet products, alphabetically arranged and followed by the names of the manufacturers who produce them. It is anticipated that the directory will serve at least a triple purpose, (1.) a means of locating products designed to save time, money and maintenance, (2.) a means of selecting manufacturers best equipped to supply the products, (3.) a check list of parts, shop equipment, accessories and supplies which are considered necessary to efficient maintenance and operation.

SCOPE . . .

Listings are limited strictly to manufacturers except in limited cases where exclusive distributors may be more important to the buyer. Listings are limited, generally, to manufacturers who distribute on a national scale. Exceptions to this rule would be such manufacturers as truck and body builders, where because of the bulk of their products, the list has been expanded to include those who operate on a regional basis.

HOW TO USE . . .

Ordinarily listings are entered under the noun. However, where noun and adjective are never separated, i.e., spark plug, the complete name is entered. To expedite location of products known by several names, scores of cross references are used. For certain specialized products not included in the following listings, and for products classed as new developments, see "Specialized Products," Page 254.

CONSULT ADVERTISERS INDEX . . .

In fairness to all we have shown no partiality to advertisers. More detailed information, however, can be obtained about many of these products by consulting the Advertisers Index at the back of the book and referring to their advertised products. Complete details can be had on these and other items by using the postcard at page 48.

ABRASIVES (Cloth and Paper)—See SAND PAPER

ABSORBENTS, Oil and Grease (Floor)

Oakite Products, Inc., 22 Tnames St., New York 6, N. Y.
Oil-Dri Corp., 520 N. Michigan Ave., Chicago, Ill.
Pennsylvania Refining Co., Butler Savings & Trust Bldg., Butler, Pa. "Penn Drake Kwixorb."
Speedi-Dri Corp., 210 W. Washington Square, Philadelphia 5, Pa.
Safety & Maintenance Co., 1 Wall St., New York 5, N. Y. "Sol-Speedi-Dri."
Waverly Petroleum Products Co., 1724 Chestnut St., Philadelphia 3, Pa. "Sol-Speedi-Dri."
Wyandotte Chemicals Corp., J. B. Ford Div., Wyandotte, Mich. "Wyandotte Zorball."

ACCELEROMETERS

Vibration Specialty Co., 1534 Winter St., Philadelphia 2, Pa.

ACETYLENE, See Gas, Acetylene

ADJUSTERS, Tire Chain

American Chain Div. of American Chain & Cable Co., 929 Connecticut Ave., Bridgeport, Conn. "Weed."
Bridgeport Chain & Mfg. Co., 1201 Crescent Ave., Bridgeport, Conn.
Campbell Chain Co., York, Pa.
Crown Products Co., P. O. Box 1046, Omaha, Neb.
Link-Belt Co., 307 N. Michigan Ave., Chicago 1, Ill.
Loock & Co., R. J., 343 N. Gay St., Baltimore, Md.
McKay Co., 1005 Liberty Ave., Pittsburgh 22, Pa.
Nauman, R. F., State Tower Bldg., Syracuse 2, N. Y. "Naco."
Nixdorf-Krein Mfg. Co., 916 Howard St., St. Louis 6, Mo. "Elephant Brand."
Peerless Chain Co., Front & Walnut Sts., Winona, Minn. "Superior."
Raymond Mfg. Co., Div. of Associated Spring Corp., 226 S. Center St., Corry, Pa.
St. Pierre Chain Corp., Frank St., Worcester, Mass.
Tingley-Reliance Rubber Co., 903 Ross St., Rahway, N. J. "C.O.T."
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.
Western Chain Co., 1807 Belmont Ave., Chicago 13, Ill. "Wesco."
Woodworth Specialties Corp., 239 Water St., Binghamton, N. Y.

AIR CLEANERS, See Cleaners, Air

ALIGNERS, Wheel, See Gages, Wheel and Axle Aligning

ALUMINUM (Sheet, Rod and Ingot)

Ajax Metal Co., 46 Richmond St., Philadelphia 23, Pa. (Ingot.)
Aluminum Co. of America, Gulf Bldg., Pittsburgh 19, Pa. "Alcoa."
American Nickeloid Co., Peru, Ill. (Nickel and chrome plated aluminum, in sheets.)
Belmont Smelting & Refining Works, 326a Belmont Ave., Brooklyn, N. Y. (Ingot.)
Bohn Aluminum & Brass Corp., 1400 Lafayette Bldg., Detroit 26, Mich. (Rod and ingot.)
Central Steel & Wire Co., 3000 W. 51st St., Chicago 80, Ill.
Cleveland Electro Metals Co., 2391 W. 38th St., Cleveland 13, Ohio. "Cemco." (Shot, ingot and shapes.)
Fairmont Aluminum Co., Fairmont, W. Va. "Falco." (Sheet.)
Federated Metals Div., American Smelting & Refining Co., 120 Broadway, New York 5, N. Y.
Frontier Bronze Corp., 4870 Packard Rd., Niagara Falls, N. Y. (Ingot.)
Hamden Smelting Co., State & Edmund Sts., New Haven, Conn. "USA." (Ingot.)
North American Smelting Co., Marine Terminal, Wilmington, Del. (Ingot.)
Permanente Metals Corp., 1924 Broadway, Oakland 12, Calif. "Kaiser." (Sheet, plate, coils, circles, billets, pig and ingot.)
Reynolds Metals Co., Aluminum Div., 2500 S. Third St., Louisville 1, Ky.
U. S. Reductoin Co., Melville & Chicago Aves., East Chicago, Ind. "Usco." (Ingot.)

AMMETERS, Instrument Board

AC Spark Plug Div., 1300 N. Dort Highway, General Motors Corp., Flint 2, Mich.
Electric Auto-Lite Co., Instrument & Gage Div., La Crosse, Wis.
Hoyt Electrical nstrument Works, 292 Main St., Cambridge 42, Mass. (Sole distributors, Burton-Rogers Co., 292 Main St., Cambridge 42, Mass.)
King-Seeley Corp., K-S Bldg., Ann Arbor, Mich. "K-S Telegage."
Servwell Products Co., 6519 Euclid Ave., Cleveland 3, Ohio.
Stewart-Warner Corp., 1826 Diversey Parkway, Chicago, Ill.
United States Gauge Div. of American Machine and Metals, Inc., Sellersville, Pa.
Weston Electrical Instrument Corp., 614 Frelinghuysen Ave., Newark 5, N. J.

ANALYZERS, Combustion

Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13F, Mich.
Electric Heat Control Co., 9115 Inman Ave., Cleveland 5, Ohio. "King."
Electro Products Co., 445 E. 189th St., New York 58, N. Y. "Mixture Master," "Electro-Twin."
Engelhard, Inc., Charles, 900 Lassaic Ave., East Newark, N. J. "Exhaustalyser."
Gow-Mac Instrument Co., 22 Lawrence St., Newark 5, N. J.
Lanagan & Hoke, 431 E. Collom St., Philadelphia 44, Pa.
Permutit Co., 330 W. 42nd St., New York, N. Y. "Ranarex."
Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ill.
Weidenhoff, Inc., Joseph, 4340 W. Roosevelt Rd., Chicago 24, Ill.

ANALYZERS, (Engine and Electrical Equipment)

Actane Chemical Co., Philadelphia 8, Pa.
Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13F, Mich. "Motor Tuner," "Motor Tester."
Electric Heat Control Co., 9115 Inman Ave., Cleveland 5, Ohio. "King."
Hygrade Products Co., 35-35 35th St., Long Island City, N. Y. "Vac-O-Scope."
Kent-Moore Organization, nc., 5-105 General Motors Bldg., Detroit 2, Mich.
Lanagan & Hoke, 431 E. Collom St., Philadelphia 44, Pa.

Mack Products Co., 15 Putnam St., Winthrop, Mass.
Powercraft Corp., 2502 S. Wabash Ave., Chicago, Ill. "Powerflo." (Sole distributors. Leterstone Sales Co., 2515 S. Wabash Ave., Chicago, Ill.)
Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ill.
T. & H. Mfg. Co., 811 E. 31st St., Kansas City 3, Mo.
Universal Chemists, 107 Northampton St., Boston, Mass. "Chekometer."
Weidenhoff, Inc., Joseph, 4340 W. Roosevelt Rd., Chicago 24, Ill.

ANTI-FREEZE, Cooling System

Ball Chemical Co., Empire Bldg., Pittsburgh 22, Pa. "Cleanola."
Cliffs Dow Chemical Co., Wright St., Marquette, Mich. "Sentinel."
Commercial Solvents Corp., 17 E. 42nd St., New York 17, N. Y. "Ajax," "Frost Chek," "Peak," "Plus."
duPont de Nemours & Co., E. I., Ammonia Dept., Zerone & Zerex Section, Wilmington 98, Del. "Zerone," "Zerex."
Esso Standard Oil Co., 15 W. 51st St., New York 19, N. Y.
Floz-on Mfg. Co., Box 8566, Pittsburgh 20, Pa.
Goodrich Co., B. F., 500 S. Main St., Akron, Ohio.
Great Northern Research Laboratories, Inc., 542 S. Dearborn St., Chicago 5, Ill. "No-Freeze."
Mirrolike Mfg. Co., 36th St. & Queens Blvd., Long Island City 1, N. Y. "Never-Freeze."
National Carbon Co., 30 E. 42nd St., New York 17, N. Y. "Prestone," "Trek."
Porte Mfg. Co., 2930 Fulton St., Brooklyn 7, N. Y. "Compass."
Publickers Industries Inc., 1429 Walnut St., Philadelphia 2, Pa. "Thermo."
Randall Products Mfg. Co., 100 N. Moore St., New York 13, N. Y. "Rand-Zone."
Shell Oil Co., 50 W. 50th St., New York 20, N. Y.
Socony-Vacuum Oil Co., 26 Broadway, New York 4, N. Y. "Mobil Freezone."
Speco, Inc., 7308 Associate Ave., Cleveland 9, Ohio. "Speco," "Freezex."
Texas Co., 135 E. 42nd St., New York 17, N. Y. "Texaco PT."
United Distillers of America, Inc., 350 Fifth Ave., New York 1, N. Y. "Saf-Tee."
U. S. Industrial Chemicals, Inc., 60 E. 42nd St., New York 17, N. Y. "Super-Pyro."
V-O Mfg. Co., 13245 Sherman Way, North Hollywood, Calif.

ANTI-FREEZE, Gasoline System

Barton Products Co., 2765 St. Mary's Court, Chicago 47, Ill.
Buffalo Plastic Finish Co., 152 Oak St., Buffalo, N. Y. "Pep."
Casite Corp., Hastings, Mich. "Drout."
Commercial Solvents Corp., 17 E. 42nd St., New York 17, N. Y. "Nor'way Dry-Ex."
Cristy Chemical Corp., 21 Putnam St., Worcester 4, Mass. "Cristy Drygas."
Dacar Chemical Products Co., Wabash & McCartney Sts., Pittsburgh 20, Pa. "Mototuner."
Fidelity Mfg. Co., Front & Bridge Sts., Catasauqua, Pa. "Alrite," "Fidelity."
Heet Div. of Demert & Dougherty, Inc., 3001 W. 47th St., Chicago 32, Ill.
Hollingshead Corp., R. M., 840 Cooper St., Camden, N. J. "Whiz Zorbit."
Lion Chemical Co., 3900 N. Pulaski Ave., Chicago 41, Ill. "Gasone."
Pennsylvania Refining Co., Butler Savings & Trust Bldg., Butler, Pa. "Penn Drake Gumont."
Porte Mfg. Co., 2930 Fulton St., Brooklyn 7, N. Y. "Gasec."
Radiator Specialty Co., 1722 Dowd Rd., Charlotte 1, N. C.
Tumbler Laboratories, J. A., 423 S. Hanover St., Baltimore 1, Md. "De-Icer."
Watts-Wagner Co., 113 Frelinghuysen Ave., Newark 5, N. J. "Aqua-Ex."
Winkenweder & Ladd, Inc., 1421 S. Michigan Ave., Chicago 5, Ill. "Start."

ARMATURES

Carty Electric & Armature Service, Inc., 1608 14th St., N. W., Washington, D. C.
General Armature & Mfg. Co., Mill Hall, Pa.
Jordan Electrical Mfg. Co., 222 N. Second St., Minneapolis 1, Minn.

ARBOR PRESSES, See Presses, Arbor

ARMS, Breaker

Niehoff & Co., C. E. 4925 W. Lawrence Ave., Chicago 30, Ill.
Shurhit Products, Inc., Waukegan, Ill.
Standard Motor Products, Inc., 3718 Northern Blvd., Long Island City, L. I., N. Y.
Valley Forge Products, Inc., 35-20 Skillman Ave., Long Island City 1, N. Y.

AXLE STRAIGHTENERS, See Straighteners, Axle. (Also Gages, Wheel and Axle Aligning.)

AXLE SHAFTS

Canton Drop Forging & Mfg. Co., 207 12th St., S. E., Canton, Ohio.
Detroit Devel Gear Co., 8130 Jos. Campau Ave., Detroit 11, Mich.
Dittmer Gear Mfg. Corp., 193 Grand St., Lockport, N. Y.
International Parts Corp., 11th & State Sts., Chicago 5, Ill.
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio. (Sole distributors to replacement trade, Lempco Automotive Inc., 2953 E. 55th St., Cleveland 4, Ohio.)
Republic Gear Co., 2197 Beaufait Ave., Detroit 7, Mich.
Spencer Mfg. Co., Spencer, Ohio.
Steel and Tubes, Inc., 224 E. 131st St., Cleveland, Ohio.
U. S. Axle Co., Inc., Water St., Pottstown, Pa.
Warner Automotive Parts Div., Borg-Warner Corp., S. Wayne St., Auburn, Ind.

York Axle & Forge Co., Loucks Mill Rd., York, Pa. "Bilt-Well"; "Foreman" (Sole distributors, Foreman, Inc., 2119 S. Wabash Ave., Chicago, Ill.

AXLE SUSPENSION UNITS, for Trailers

Callahan Engrg. Co., 1100 Mateo St., Los Angeles 21, Calif.
Edwards Trailer & Body Co., South Bend 23, Ind.
Feather Ride, Inc., 238 N. E. Oregon St., Portland 14, Ore.
Hammer Blow Tool Co., 602½ Third St., Wausau, Wis.
Hendrickson Motor Truck Co., 8001 W. 47th St., Lyons (Chicago suburb), Ill. "Hendrickson Tandem."
Highway Trailer Co., 421 E. Fulton St., Edgerton, Wis.
Liggett Supply & Equipment Co., Monongahela, Pa.
Reynolds Mfg. Co., Springfield, Mo. "Reyco Tandem."
Shamrock Trailers & Axle Mfg. Co., 13447 Schaefer St., Detroit, Mich.
Springfield Body & Trailer Co., 1631 College St., Springfield, Mo. "Frazier."
Standard Forge & Axle Co., Hunter Sta., Montgomery 2, Ala. (Licensee.)
Truck Equipment Co., 1791 Fillmore Ave., Buffalo 14, N. Y. "Gravity Springs."
Trucktor Corp., 156 Wilson Ave., Newark 5, N. J.
Union Metal Mfg. Co., 1432 Maple Ave., N. E., Canton 5, Ohio. "Hoobler."
Utility Trailer Mfg. Co., P. O. Box 3608, Terminal Annex, Los Angeles 54, Calif. (Licensors.)

AXLE UNITS, Third, for Trucks

Auto Truck Steel Body Co., 3028 Carroll Ave., Chicago 12, Ill.
Baumis Mfg. Corp., Townsend, Mass. (Sole distributors, Truckstell Mfg. Co., 2016 Union Commerce Bldg., Cleveland 14, Ohio.)
Callahan Engineering Co., 1100 Mateo St., Los Angeles 21, Calif.
Cook Bros. Equipment Co., 3330 San Fernando Rd., Los Angeles 41, Calif. (Chain drive.)
Detroit Automotive Products Corp., 8701 Grinnell Ave., Detroit 13, Mich. "Thornton Four-Rear Wheel Drive." (Power on four wheels; also chain drive; also "Load Booster.")
F. A. B. Mfg. Co., 1249 67th St., Oakland 8, Calif. "Fabco."
Grico Two Axle Drive Co., 19840 Eight Mile Road, W. (Rockford Station), Detroit 19, Mich.
Hendrick Mfg. Co., W. Cedar St., Poughkeepsie, N. Y. "Guilder."
Hendrickson Motor Truck Co., 8001 W. 47th St., Lyon, Ill. (Tandem, for trailers.)
Little Giant Products, Inc., 1530 N. Adams St., Peoria 3, Ill.
Six Wheels Inc., 1550 E. 20th St., Los Angeles 11, Calif. "Maxi."
Springfield Body & Trailer Co., 1631 College St., Springfield, Mo. "Frazier."
Superior Trailer Works, 1430 E. Washington Blvd., Los Angeles 12, Calif. (Also four-wheel chain drives.)
Thornton Four-Rear Wheel Drive—See Detroit Automotive Products Corp.
Timken-Detroit Axle Co., 100 Clark Ave., Detroit 32, Mich.
Trailmobile Co., 31st & Robertson Aves., Cincinnati 9, Ohio.
Truck Equipment Co., 1791 Fillmore Ave., Buffalo 14, N. Y. "Truxmore." (Sole distributors, Truckstell, Inc., Union Commerce Bldg., Cleveland, Ohio.)
Trucktor Corp., 156 Wilson Ave., Newark 5, N. J. (Also chain and sprocket drive.)
Utility Trailer Mfg. Co., P. O. Box 3608, Terminal Annex, Los Angeles 54, Calif.
Warford Corp., 44 Whitehall St., New York, N. Y. (For Ford and Chevrolet trucks.)
Weber Trailer & Mfg. Co., 1104 E. Fifth St., Los Angeles 13, Calif.

AXLES, Front

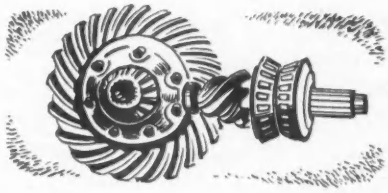
Clark Equipment Co., Buchanan, Mich. (Truck and bus.)
Eaton Mfg. Co., Axle Div., 739 E. 140th St., Cleveland 10, Ohio. (Truck.)
Four Wheel Drive Auto Co., E. 12th St., Clintonville, Wis. "FWD."
Shuler Axle Co., 2901 S. Second St., Louisville 8, Ky.
Timken-Detroit Axle Co., 100 Clark Ave., Detroit 32, Mich. (For trucks and buses.)

AXLES, Front Drive

American-Coleman Co., The, Omaha, Neb. (For conversions.)
Marmon-Herrington Co., 1511 W. Washington St., Indianapolis 7, Ind. (For Ford conversions.)
Timken-Detroit Axle Co., 100 Clark Ave., Detroit 32, Mich. (For trucks.)

AXLES, Rear

Clark Equipment Co., Buchanan, Mich. (Truck and bus.)
Eaton Mfg. Co., Axle Div., 739 E. 140th St., Cleveland 10, Ohio.
Four Wheel Drive Auto Co., E. 12th St., Clintonville, Wis. "FWD."
Spicer Mfg. Div. of Dana Corp., 4100 Bennett Rd., Toledo 1, Ohio. "Spicer-Salisbury."
Timken-Detroit Axle Co., 100 Clark Ave., Detroit 32, Mich. (For trucks.)



AXLES, Rear (Two Speed)

Eaton Mfg. Co., Axle Div., 739 E. 140th St., Cleveland 10, Ohio.
Timken-Detroit Axle Co., 100 Clark Ave., Detroit 32, Mich. (For trucks.)

AXLES, Trailer

Brown Corp., 213 Bellevue Ave., Syracuse, N. Y. (House.)
Dorsey Trailers, Elba, Ala.
Fayette Mfg. Co., Fayette, Ohio.
Hammer Blow Tool Co., 602½ Third St., Wausau, Wise. "Torq-less."
Kay-Brunner Steel Products, Inc., 999 Meridian Ave., Alhambra, Calif.
Kingham Trailer Co., 15th & Hill Sts., Louisville, Ky. "Kingham-Universal."
Liggett Spring & Axle Co., Monongahela, Pa.
Shamrock Trailers & Axle Mfg. Co., 13447 Schaefer St., Detroit, Mich.
Shuler Axle Co., 2901 S. Second St., Louisville 8, Ky.
Spencer Mfg. Co., Spencer, Ohio.
Spencer Trailer Co., Augusta, Kans. "Spencer Trail-Lite."
Springfield Body & Trailer Co., 1631 College St., Springfield, Ohio. "Frazier."
Standard Forge & Axle Co., Hunter Station, Montgomery 2, Ala.
Timken-Detroit Axle Co., 100 Clark Ave., Detroit 32, Mich.
Trotwood Trailers, Inc., 11 N. Broadway, Trotwood, Ohio.
Trucktor Corp., 156 Wilson Ave., Newark 5, N. J.
United Mfg. Co., 30 Interstate St., Bedford, Ohio. "Caravan."

BABBITTING MACHINES, See Machines, Babbitting

BALANCERS, Wheel

Bean Div. Food Machinery & Chemical Corp., John, 1305 S. Cedar St., Lansing 4, Mich.
Bear Mfg. Co., 21st St. & Fifth Ave., Rock Island, Ill.
Bee-Line Co., Box 569, Davenport, Iowa.
Gibbs Div., Geo. W. Borg Corp., Delavan, Wis. "Borg."
Holmes Co., Ernest, 2505 E. 43rd St., Chattanooga, Tenn.
Lambert Products, Inc., 513 Hunter Ave., Dayton, Ohio. "Balastat."
Loney Co., Harley C., 16883 Wyoming Ave., Detroit 21, Mich. "L&H."
Miller Mfg. Co., 5919 Tireman Ave., Detroit 4, Mich. (Static.)
Mobilstatic Balancer Co., 1601 W. Lincoln St., Cheyenne, Wyo. "Balintire." (Tire and tube.)
Schildmeier Co., H. C., 312 N. Senate Ave., Indianapolis 2, Ind. "Seal Line."
Stewart-Warner Corp., Alemite Div., 1826 Diversey Parkway, Chicago, Ill. (Electronic.)
Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill. (Dynamic.)

BARS, Towing (One Man Type)

Campbell Co., H. D., 316 N. Sixth St., Rochelle, Ill. "Wayne."
Dutton-Lainson Co., Mfg. Div., Hastings, Neb. "Golden Rod."
Fulton Co., 1912 S. 82nd Ave., Milwaukee 14, Wis.
Marquette Mfg. Co., 307 E. Hennepin Ave., Minneapolis 14, Minn.
Pilot Mfg. Co., Battle Creek, Mich. "Tow Guide."
Tow-Master Corp., 1111 N. Clark St., Chicago 10, Ill.

BATTERIES, Dry

Bond Electric Corp., Div. of Olin Industries, Inc., 275 Winchester Ave., New Haven 4, Conn.
Bowers Battery & Spark Plug Co., Reading, Pa. (Flashlight.)
Bowes "Seal Fast" Corp., 228 N. Pine St., Indianapolis 7, Ind.
Bright Star Battery Co., 200 Crooks Ave., Clifton, N. J.
Burgess Battery Co., Freeport, Ill.
General Dry Batteries, Inc., 131000 Athens Ave., W. Cleveland, Ohio.
National Carbon Co., 30 E. 42nd St., New York 17, N. Y. "Eveready."
Radio Corp. of America, RCA Victor Div., Tube Dept., 411 S. Fifth St., Harrison, N. J. "RCA."
Ray-O-Vac Co., 212 E. Washington St., Madison 3, Wis.
Underwood Battery Co., 1250 Ontario St., Cleveland, Ohio. (Flashlight.)
United States Electrical Mfg. Corp., 222 W. 14th St., New York 11, N. Y. "Usalite."
Western Cable Battery Co., 395 Sibley St., St. Paul 1, Minn.
Willard Storage Battery Co., 246 E. 131st St., Cleveland, Ohio.
Winchester Repeating Arms Co., Div. of Olin Industries, Inc., 275 Winchester Ave., New Haven 4, Conn.

BATTERIES, Storage

Auto-Lite Battery Corp. (Sub. of Electric Auto-Lite Co.), Toledo 1, Ohio.
Bowers Battery & Spark Plug Co., Reading, Pa.
C & D Batteries, Inc., Conshohocken, Pa.
Crescent Battery & Light Co., 819 Magazine St., New Orleans 13, La.
Delco-Remy Div., General Motors Corp., Anderson, Ind.
Edison, Inc., Thomas A., Automotive Div., West Orange, N. J. "Edison," "Edison-Emark."
Electric Storage Battery Co., Allegheny Ave. & 19th St., Philadelphia 32, Pa. "Exide."
The Firestone Tire & Rubber Co., Akron 17, Ohio.
Geidel Battery Mfg. Co., 3393 Bigelow Blvd., Pittsburgh 19, Pa.
General Lead Batteries Co., 196 W. Railway Ave., Paterson, N. J. "Titan," "Durex."
Gibbs Battery Co., Corydon, Iowa. "Gibbs," "G-B."
Gill Electric Mfg. Corp., 201 E. Citrus Ave., Redlands, Cal.
Globe Union, Inc., 900 E. Keefe Ave., Milwaukee 1, Wis.
Goodrich Co., B. F., 500 S. Main St., Akron, Ohio. "Glasstex."
Gould Storage Battery Corp., First National Bank Bldg., St. Paul 1, Minn.
Grant Storage Battery Co., 226 N. Second St., Minneapolis, Minn.
Kathanode Corp., 1201 First National Bank Bldg., St. Paul 1, Minn.
Kelly-Springfield Tire Co., Cumberland, Md.
Laher Spring & Tire Corp., 26th & Magnolia Sts., Oakland, Cal.
Loreman Automotive Products, Moore & Division Sts., Salisbury, Md.
Lyons Storage Battery Co., Hamburg, Pa.
Marlatt Battery & Mfg. Co., 1112 Industrial Ave., Danville, Ill.
Monark Battery Co., 6501 W. Grand Ave., Chicago, Ill. "Invader," "Monark," "Majestic."
Multnomah Battery Mfg. Co., 1901 N. W. Wilson St., Portland 9, Ore.
National Battery Co., First National Bank Bldg., St. Paul 1, Minn.
Norwalk Tire & Rubber Co., Belden Hill Ave., Norwalk, Conn.
Patterson Corp., 437 Park Ave., N.W., New Philadelphia, Ohio. "Bowers," "Penn."
Perrine Quality Products Corp., 55 Rumford Ave., Waltham, Mass. "Perrine Polar Bear."

Prest-O-Lite Battery Co., Toledo, Ohio.
Price Battery Corp., Hamburg, Pa. "Thor."
Reading Batteries, Inc., Box 916, Reading, Pa. "Rebat."
Red-Bar Battery Co., 206 S. Orchard Ave., Dayton, Ohio.
Reliance Battery Products Co., 2211 S. Eighth St., Council Bluffs, Iowa. "Marathon," "Packard," "Reliance."
Solar Corp., 1000 W. Bruce St., Milwaukee 4, Wis.
Standard Electric Co., 115 San Pedro Ave., San Antonio, Tex. "Reliable," "Star," "Stelco," "Ful-O-Pep," "Comet."
Surrette Storage Battery Co., Jefferson Ave., Salem, Mass.
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.
Universal Battery Co., 3410 S. La Salle St., Chicago 16, Ill. "Universal," "Coliseum."
Vesta Consolidated, Inc., First National Bank Bldg., St. Paul 1, Minn.
Volta Battery Corp., 1000 E. 87th St., Chicago 19, Ill.
Western Cable Battery Co., 395 Sibley St., St. Paul 1, Minn. "Cable."
Willard Storage Battery Co., 246 E. 131st St., Cleveland, Ohio.
Witherbee Storage Battery Co., Hamburg, Pa.

BEARINGS, Ball

Aetna Ball & Roller Bearing Co., 4600 Schubert Ave., Chicago 39, Ill. (Thrust.)
Ahlberg Bearing Co., 3025 W. 47th St., Chicago 32, Ill. "CJB."
American Ball Bearing Co., 70 Flushing Ave., Brooklyn 1, N. Y.
Ball & Roller Bearing Co., 22 Maple Ave., Danbury, Conn. "B&RB."
Bearings Co. of America, 501 Harrisburg Ave., Lancaster, Pa. "BCA."
Bearings Industry Co., 17 W. 60th St., New York 23, N. Y. ("BIC"; "R & M." [Imported.])
Burgess-Norton Mfg. Co., 758 Peyton St., Geneva, Ill. (Assemblies.)
Chefford Master Mfg. Co., Fairfield, Ill. "CMF," "Lubro-Life."
Consolidated Bearings Co., 13 Princeton St., East Orange, N. J. "SRO."
Fafnir Bearing Co., 37 Booth St., New Britain, Conn.
Federal Bearings Co., 17 Fairview Ave., Poughkeepsie, N. Y.
Green Ball Bearing Co., 1965 E. 66th St., Cleveland 3, Ohio.
Gwilliam Co., 360 Furman St., Brooklyn 2, N. Y.
Hoover Ball & Bearing Co., Ann Arbor, Mich.
International Parts Corp., 11th & State Sts., Chicago 5, Ill.
Jack & Heintz Precision Industries, Inc., 17600 Broadway, Cleveland 1, Ohio. "J & H."
Kane & Co., J. V., Liberty Trust Bldg., Philadelphia 7, Pa.
Kaydon Engineering Corp., Muskegon, Mich.
L & S Bearing Co., 1015 N. Broadway, Oklahoma City, Okla.
Majestic Bearing Co., 2515 S. Wabash Ave., Chicago 16 Ill. (Sole distributors, Leterstone Sales Co., 2515 S. Wabash Ave., Chicago, Ill.)
Marlin-Rockwell Corp., 402 Chandler St., Jamestown, N. Y. "M-R-C." (Sole distributors to replacement trade, M-R-C Bearings Service Co., Jamestown, N. Y.)
Matthews Mfg. Co., 104 Gold St., Worcester 3, Mass. (Unground.)
New Departure Div. General Motors Corp., Bristol, Conn.
Nice Ball Bearing Co., 30th St. & Hunting Park Ave., Philadelphia 40, Pa.
Norma-Hoffmann Bearings Corp., Hamilton Ave., Stamford, Conn.
Perfect Parts, Inc., 55 Amsterdam Ave., New York 23, N. Y.
Powercraft Corp., 2502 S. Wabash Ave., Chicago, Ill. "Powerflo."
SKF Industries, Inc., Front St. & Erie Ave., Philadelphia 32, Pa.
Stephens-Adamson Mfg. Co., 150 Ridgeway St., Aurora, Ill. "Sealmaster."

BEARINGS and BUSHINGS, Bronze-Backed

American Bearing Corp., 429 S. Harding St., Indianapolis, Ind.
Bohn Aluminum & Brass Corp., 1400 Lafayette Bldg., Detroit 26, Mich. "Bohn Ring True."
Buckeye Brass & Mfg. Co., 6410 Hawthorne Ave., Cleveland, Ohio.
Bunting Brass & Bronze Co., 715 Spencer St., Toledo 9, Ohio.
Clawson & Bals, Inc., Holland, Mich. "Ringtrue." (Bearings.)
Cleveland Graphite Bronze Co., 17000 St. Clair Ave., Cleveland 10, Ohio.
Detroit Aluminum & Brass Corp., 3975 Christopher Ave., Detroit 11, Mich. (Bearings.)
Federal-Mogul Corp., Western Mfg. Div., 250-14th St., San Francisco, Calif. "F.M."
Johnson Bronze Co., 510 S. Mill St., New Castle, Pa.
King Quality Products Co., 2320 Marconi St., St. Louis 10, Mo. (Bearings.)
McQuay-Norris Mfg. Co., 2320 Marconi St., St. Louis, Mo. (Bearings.)
Monmouth Products Co., 6545 Carnegie Ave., Cleveland 3, Ohio.
Morris Co., J. Leslie, 4227 Whiteside St., Los Angeles, Calif. "Moroloy."
National Formetal Co., 6536 Metta Ave., Cleveland 14, Ohio. "Formetal."
Pioneer Motor Bearing Co., Eddy & Van Ness Ave., San Francisco, Calif.

BEARINGS and BUSHINGS, Die Cast, Babbitt, etc.

Cleveland Graphite Bronze Co., 17000 St. Clair Ave., Cleveland 10, Ohio.
Federal-Mogul Corp., 11031 Shoemaker Rd., Detroit 13, Mich.
Federal-Mogul Corp., Western Mfg. Div., 250 14th St., San Francisco, Cal. "F.M.."
King Quality Products Co., 2320 Marconi St., St. Louis 10, Mo. (Bearings.)
McQuay, Norris Mfg. Co., 2320 Marconi St., St. Louis, Mo. ((Bearings.)
Mallory & Co.,. P. R., 3029 E. Washington St., Indianapolis, Ind.
Monmouth Products Co., 6545 Carnegie Ave., Cleveland 3, Ohio.
Morris Co., J. Leslie, 4227 Whiteside St., Los Angeles, Calif. "Moroloy."
National Molded Products, Inc., 40 S. St. Marys St., St. Marys, Pa. "Tubeloy." (Bearings.)
Pioneer Motor Bearing Co., Eddy & Van Ness Ave., SanFrancisco, Calif.

BEARINGS and BUSHINGS, Self-Aligning

Adel Precision Products Corp., 10777 Van Owen St., Burbank, Calif. "Halfco."
National Molded Products, Inc., 40-42 S. St., Marys St., St. Marys, Pa. (Bearings.)

BEARINGS and BUSHINGS, Steel-Backed

Al-Fin Div., Fairchild Engine & Airplane Corp., Farmingdale, L. I., N. Y. (Aluminum lined, semi-finished.)
American Bearing Corp., 429 S. Harding St., Indianapolis, Ind. (Babbitt lined.)
Bohn Aluminum & Brass Corp., 1400 Lafayette Bldg., Detroit 26, Mich.
Clawson & Balls, Inc., Holland, Mich. "Ringtrue." (Bearings.)
Cleveland Graphite Bronze Co., 17000 St. Clair Ave., Cleveland 10, Ohio. "Clevite 77," "Bimetal," "Trimetal."
Detroit Aluminum & Brass Corp., 3975 Christopher Ave., Detroit 11, Mich. (Bearings.)
Dura-Bond Bearing Co., 715 Loma Verde Ave., Palo Alto, Calif. (Bearings.)
Federal-Mogul Corp., 11031 Shoemaker Rd., Detroit 13, Mich.
Federal-Mogul Corp., Western Mfg. Div., 250 14th St., San Francisco, Calif. "F.M."
Green Line Co., 1939 E. 61st St., Cleveland 3, Ohio. (Babbitt lined bushings.)
International Parts Corp., 11th & State Sts., Chicago 5, Ill.
King Quality Products Co., 2320 Marconi St., St. Louis 10, Mo. (Bearings.)
McQuay-Norris Mfg. Co., 2320 Marconi St., St. Louis, Mo. (Bearings.)
Monmouth Products Co., 6545 Carnegie Ave., Cleveland 3, Ohio.
Moraine Products Div., General Motors Corp., 1420 Wisconsin Blvd., Dayton, Ohio.
Morris Co., J. Leslie, 4227 Whiteside St., Los Angeles, Calif. "Moroloy."
National Formetal Co., 6526 Metta Ave., Cleveland 14, Ohio. "Formetal."
Pioneer Motor Bearing Co., Eddy & Van Ness Ave., San Francisco, Calif.
Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio. (Bearings.)
Toledo Steel Products Co., 3300 Summit St., Toledo 11, Ohio. (Engine bearings.)

BEARINGS, Clutch Throwout

Accurate Parts Mfg. Co., 12435 Euclid Ave., Cleveland 6, Ohio.
Aetna Ball & Roller Bearings Co., 4600 Schubert Ave., Chicago 39, Ill. (Ball; sole distributors to replacement trade, Automotive Thrust Bearings Corp., 2021 S. Michigan Ave., Chicago 16, Ill.)
Automotive Thrust Bearings Corp., 2021 S. Michigan Ave., Chicago 16, Ill. "A.T.B."
Bearings Co. of America, 501 Harrisburg Ave., Lancaster, Pa. "BCA."
Chefford Master Mfg. Co., Fairfield, Ill. "Lubro-Life."
Dorman Products, Inc., 1004 Sycamore St., Cincinnati 2, Ohio.
Green Ball Bearing Co., 1965 E. 66th St., Cleveland 3, Ohio.
Monmouth Products Co., 6545 Carnegie Ave., Cleveland 3, Ohio.
Nice Ball Bearing Co., 30th St. & Hunting Park Ave., Philadelphia 40, Pa.
Pure Carbon Co., 441 Hall Ave., St. Marys, Pa. "Purebon."
Randall Graphite Products Corp., 609 W. Lake St., Chicago 6, Ill. (For Chevrolet and Oldsmobile cars.)
Sure-Rite Products Corp., 2731 N. Sixth St., Philadelphia 33, Pa.
United States Graphite Co., 1621 Holland Ave., Saginaw, Mich. "Graphitar."
Wohlert Corp., 700 E. Grand River Ave., Lansing 6, Mich.

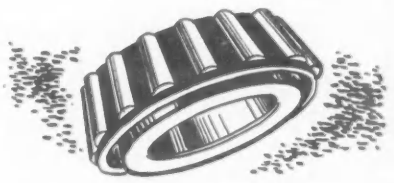
BEARING LEAK DETECTORS, See Testers, Bearing Wear

BEARINGS, Needle

Perfect Parts, Inc., 55 Amsterdam Ave., New York 23, N. Y.
Torrington Co., 56 Field St., Torrington, Conn.

BEARINGS, Roller

Aetna Ball & Roller Bearing Co., 4600 Schubert Ave., Chicago 39, Ill.
American Ball Bearing Co., 70 Flushing Ave., Brooklyn 1, N. Y.
Ball & Roller Bearing Co., 22 Maple Ave., Danbury, Conn. "B&RB."
Bearings Industry Co., 17 W. 60th St., New York 23, N. Y. ("BIC"; "R & M." Imported.)



Bower Roller Bearing Co., Hart & Goethe Aves., Detroit 14, Mich.
Consolidated Bearings Co., 13 Princeton St., East Orange, N. J. "SRO."
Geneva Metal Wheel Co., 191 Factory Row, Geneva, Ohio.
Gwilliam Co., 360 Furman St., Brooklyn 2, N. Y.
Hoover Ball & Bearing Co., Ann Arbor, Mich.
Hyatt Bearings Div., General Motors Corp., Harrison, N. J.
Industrial Engineering Co., Island Rd. & Suffolk Ave., Philadelphia 42, Pa.
International Parts Corpj., 11th & State Sts., Chicago 5, Ill.
Kaydon Engineering Corp., Muskegon, Mich.
Majestic Bearing Co., 2515 S. Wabash Ave., Chicago 16, Ill. (Sole distributors, Leterstone Sales Co., 2515 S. Wabash Ave., Chicago, Ill.)
Norma-Hoffmann Bearing Corp., Hamilton, Ave., Stamford, Conn.
Orange Roller Bearing Co., 557 Main St., Orange, N. J.
Powercraft Corp., 2502 S. Wabash Ave., Chicago, Ill. "Powerflo."
Roller Bearing Co. of America, Whitehead Rd., Trenton, N. J. "20th Century," "R B C," "Cyclops."
Rollway Bearing Co., 541 Seymour St., Syracuse, N. Y.
SKF Industries, Inc., Front St., & Erie Ave., Philadelphia 32, Pa.
Timken Roller Bearing Co., 1835 Dueber Ave., S. W., Canton 6, Ohio.
Torrington Co., 56 Field St., Torrington, Conn.
Tyson Bearing Corp., Oberlin & Thomas Aves., Massillon, Ohio.
Western Automatic Machine Screw Co., 752 Lake Ave., Elyria, Ohio.

BELTS, FAN

American Brakeblok Div., American Brake Shoe Co., 4600 Merritt Ave., Detroit 9, Mich.
Asbestos Mfg Co., E. Sabine St., Huntington, Ind. "Amco."
Atlas Asbestos Co., North Wales, Pa. "Bodygard."
Boston Woven Hose & Rubber Co., P. O. Box 101, Boston 3, Mass. "Bull Dog."

Buckeye Refiner Producing Co., 637 N. Jackson St., Lima, Ohio.
Continental Rubber Works, 1902 Liberty St., Erie, Pa.
Crown Products Co., P. O. Box 1046, Omaha, Neb.
Dayton Rubber Co., 2342 W. Riverview Ave., Dayton 1, Ohio.
Durkee-Atwood Co., 215 Seventh St., N. E., Minneapolis 13, Minn.
Firestone Tire & Rubber Co., S. Main St., Akron, Ohio.
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo. "Gates Vulco."
Gilmer Co., L. H., Div. of United States Rubber Co., Cottman & Keystone Sts., (Tacony), Philadelphia 35, Pa.
Goodrich Co., B. F., 500 S. Main St., Akron, Ohio. "Longlife."
Goodyear Tire & Rubber Co., E. Market St., Akron 16, Ohio.
Grey-Rock Div. of Raybestos-Manhattan, Inc., Manheim, Pa.
Holfast Rubber Co., 1486 Lakewood Ave., S. E., Atlanta 1, Ga.
Hope Webbing Co., Providence, R. I.
Kelly-Springfield Tire Co., Cumberland, Md.
Lee Rubber & Tire Corp., Conshocken, Pa.
Loreman Automotive Products, Moore & Division Sts., Salisbury, Md.
Miley Co., L. J., 18 S. Sangamon St., Chicago 7, Ill.
Miller Rubber Co., Div. of B. F. Goodrich Co., 500 S. Main St., Akron, Ohio.
National Brake Block Corp., 79 Madison Ave., New York, N. Y.
Norwalk Tire & Rubber Co., Belden Hill Ave., Norwalk, Conn.
Quaker Rubber Corp., Tacony & Comly Sts., Philadelphia 24, Pa.
Rawhide Products Co., Michigan Ave., Kenilworth, N. J. "Gripper," "Miracle."
Raybestos Div. of Raybestos-Manhattan, Inc., Stratford, Conn.
Raybestos-Manhattan, Inc., Manhattan Rubber Div., 61 Willet St., Passaic, N. J. "R-M."
Thermoid Co., Whitehead Rd., Trenton 6, N. J.
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.

BENCH DRILLS, See Drill Presses

BENDERS, Tube

Armstrong Mfg. Co., 303 Knowlton St., Bridgeport 8, Conn.
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
Edelmann & Co., E., 2332 Logan Blvd., Chicago 47, Ill. "Erco."
Exello Accessories Mfrs., Inc., 81 Madison Ave., Hempstead, N. Y.
Greenlee Bros. & Co., 2100 12th St., Rockford, Ill.
Imperial Brass Mfg. Co., 1234 W. Harrison St., Chicago 7, Ill.
Leonard Precision Products Co., Garden Grove, Calif. "Leonard-Douglas."
Lidseen, Inc., Gustave, 832 S. Central Ave., Chicago, Ill. "Chicago." (Hand and hydraulic.)
O'Neill-Irvin Mfg Co., Lake City, Minn. "Di-Arco."
Parker Appliance Co., 17325 Euclid Ave., Cleveland 12, Ohio.
Williams, White & Co., Third Ave. & Eighth St., Moline, Ill.

BINS, Parts Storage

Aurora Equipment Co., Prairie St. at Cleveland Ave., Aurora, Ill. "Equipto."
Berger Mfg. Div. Republic Steel Corp., 1038 Belden Ave., N. E., Canton 5, Ohio.
De Luxe Metal Furniture Co., Struthers St., Warren, Pa.
Dorman Products, Inc., 1004 Sycamore St., Cincinnati 2, Ohio. "Add-A-Bin."
Factory Service Co., 4615 N. 21st St., Milwaukee 9, Wis. "Turner System."
Fort Steuben Metal Products Co., Follansbee, W. Va.
Frick-Gallagher Mfg. Co., 200 W. Second St., Wellston, Ohio. "F G M." (Steel or aluminum.)
Heller & Co., W. C., 1907 Wabash Ave., Montpelier, Ohio.
Hope Metal Products Co., 1505 Rockwell Ave., Cleveland 14, Ohio.
International Engng. Works, Inc., Mfg. Equip. & Eng. Co. Div., 553 Waverly St., Framingham, Mass. "Meeco."
Lyon Metal Products, Inc., 2931 Montgomery St., Aurora, Ill.
Neiman Steel Equipment Co., 106 N. Third St., Philadelphia 6, Pa.
Penn Metal Corp. of Penna., Oregon Ave. & Swanson St., Philadelphia 48, Pa. "Penco."

If you cannot find the product classification you seek, see "Specialized Products," on Page 254.

Renie Metal Products Corp., 807 Bowman St., Mansfield, Ohio. "Remco."
Standard Steel Equipment Co., 117-20 14th Rd., College Point, L. I., N. Y. "Stansteel."

BLADES, Saw (Band)

American Saw & Mfg. Co., 67 Boylston St., Springfield, Mass. "Lenox."
Atkins & Co., E. C., 402 S. Illinois St., Indianapolis 9, Ind. "Silver Steel."
Capewell Mfg. Co., 60 Governor St., Hartford 2, Conn.
Diamond Saw Works, Inc., 260 Court St., Buffalo 2, N. Y. "Sterling."
Disston & Sons, Henry, Tacony, Philadelphia 35, Pa.
DoAll Co., 254 N. Laurel Ave., Des Plaines, Ill.
Foster Mfg. Co., 287 Delaware Ave., Buffalo 2, N. Y.
Lippert Saw Co., E. T., 608 Lincoln Ave. (Millvale), Pittsburgh 9, Pa.
Millers Falls Co., Greenfield, Mass. "Universal."
Ohlen-Bishop Mfg. Co., 1314 Kinnear Rd., Columbus 11, Ohio.
Simonds Saw & Steel Co., 470 Main St., Fitchburg, Mass.
Sparton Saw Works, Inc., 152 Fisk Ave., Springfield 7, Mass.
Starrett Co., L. S., 1 Crescent St., Athol, Mass. (Metal.)
Victor Saw Works, 22 Cottage St., Middletown, N. Y.

BLADES, Saw (Circular)

Atkins & Co., E. C., 402 S. Illinois St., Indianapolis 9, Ind. "Silver Steel."
Chicago Saw Works, Inc., 5036 Wentworth Ave., Chicago 9, Ill.
Circular Tool Co., 765 Allens Ave., Providence, R. I. "Circle R."
Cowles Tool Co., 2086 W. 110th St., Cleveland, Ohio.
Disston & Sons, Henry, Tacony, Philadelphia 35, Pa.
Foster Mfg. Co., 287 Delaware Ave., Buffalo 2, N. Y.
Goddard & Goddard Co., 12280 Burt Rd., Detroit 23, Mich.
Lippert Saw Co., E. T., 608 Lincoln Ave. (Millvale), Pittsburgh 9, Pa.
National Tool Co., W. 112th St. & Madison Ave., Cleveland 2, Ohio. "National-Cleveland."
Ohlen- Bishop Mfg. Co., 1314 Kinnear Rd., Columbus 11, Ohio.
Reltool Corp., 712 W. Michigan St., Milwaukee 3, Wis.
Simmonds Saw & Steel Co., 470 Main St., Fitchburg, Mass.
United States Electrical Tool Co., 1050 Findlay St., Cincinnati 14, Ohio.
Willey's Carbide Tool Co., 1340 W. Vernor Highway, Detroit 1, Mich.

BLEEDERS, Hydraulic Brake

Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo.
Eis Automotive Corp., Middletown, Conn.
Gray Co., 60 11th Ave., N.E., Minneapolis 13, Minn. "Graco."
Hoper Equipment Co., 371 E. 116th St., Chicago 28, Ill. "Fillrite."
Miller Mfg. Co., 5919 Tireman Ave., Detroit 4, Mich.
Puritan Co., 961 Lyell Ave., Rochester 6, N. Y.
Servwell Products Co., 6519 Euclid Ave., Cleveland 3, Ohio.
Stolper Steel Products Corp., 3200 W. Fond du Lac Ave., Milwaukee 10, Wis.
Supco Products Corp., S. Bayview Ave., Amityville, L. I. N. Y.
United Parts Mfg. Co., 1250 W. Van Buren St., Chicago, Ill.
Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo.
Wilco Products, Inc., 595 Valley St., Orange, N. J.
Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K.R.W."

BLUE, Mechanics'

Bell Co., 411 N. Wolcott Ave., Chicago 22, Ill. "Bell's" "Flare."
Durkee-Atwood Co., 215 Seventh St., N.E., Minneapolis 13, Minn.
Dykem Co., 2303M N. 11th St., St Louis 6, Mo.
Hollingshead Corp., R. M., 840 Cooper St., Camden, N. J. "Whiz."
Permatex Co., 1720 Ave. Y., Brooklyn 29, N. Y.
Van Cleef Bros., Inc., Woodlawn Ave., 77th to 78th Sts., Chicago 19, Ill. "Dutch Brand."

BODIES, Commercial

Acme Body Works, 1314 N. Meade St., Appleton, Wis.
Aluminum Body Corp., 4601 S. Soto St., Vernon 11, Calif.
American Body & Equipment Co., 1411 Charlotte St., Kansas City 6, Mo.
American Body & Equipment Co., P. O. Box 3107, Dallas 1, Tex.
American Body & Trailer, Inc., P. O. Box 1150, Oklahoma City 1, Okla.
American Coach & Body Co., 9503 Woodland Ave., Cleveland 4, Ohio. (Public utility.)
American Fire Apparatus Co., 44 E. Hall St., Battle Creek 10, Mich. (Fire apparatus.)
American Truck & Body Co., Martinsville, Va. "Pack-Haulers."
Andrews Industries, Inc., 1013 Ann Ave., St. Louis 4, Mo.
Arkansas Machine Specialty Co., Hope, Ark. (Bottlers'.)
Armstrong-Johnson Mfg. Co., 97 N. Washington Ave., Columbus 15, Ohio. (Van; also "Met-L-Wood" [licensees].
Atlas Body & Equipment Co., 4150 E. Thompson St., Philadelphia 37, Pa.
Atlas Body Works, 147 McKinley Ave., Bridgeport 6, Conn.
Auto Body Works, Pierce Ave. & Eighth St., Appleton, Wis.
Auto Truck Equipment Co., 7501 Penn Ave., Pittsburgh 8, Pa. "Ateco."
Badger Body Mfg. Co., 2719 Cuming St., Omaha, Neb. (Combination grain and stock.)
Baker Equipment Engrg. Co., Summit & Norfolk Sts., Richmond 11, Va. (Also public utility.)
Baker Trailer & Body Co., 700 N. 20th St., St. Louis 3, Mo.
Baltimore Body Corp., 2253 Kirk Ave., Baltimore, Md.
Barkow Co., H., 153 N. Milwaukee St., Milwaukee, Wis.
Barry & Baily, 2419 N. 27th St., Philadelphia 32, Pa.
Batavia Body Co., 5 W. Wilson St., Batavia, Ill. (Refrigerator.)
Baxter Co., 1610 W. Michigan Ave., Duluth 2, Minn.
Belgrade Wagon Works, Cambria & Belgrade Sts., Philadelphia 34, Pa.
Belmont Body Builders, 175 Belmont Ave., Newark 3, N. J.
Better Body Builders, Inc., River Rd. & B. & O. R. R., Bethesda 14, Md. (Steel van and urban panel.)
Black & Sons, Inc., Adam, 300 Tonnele Ave., Jersey City, N. J.
Boardman Co., 1401 S. W. 11th St., Oklahoma City, Okla.
Bolick Sons Co., Jerome, Conover, N. C.
Bolzenthal & Son, L. C., 1367 Doty St., Green Bay, Wis. (Bakery.)
Born & Sons, Herman, 219 N. Fremont Ave., Baltimore 1, Md.
Boyertown Auto Body Works, Inc., Third & Walnut Sts., Boyertown, Pa.
Brandt, Inc., Charles T. Leonhardt Body Div., 201 N. Haven St., Baltimore 24, Md.
Brown Bodies, Inc., 122 E. Walnut St., Des Moines, Iowa.
Brumbaugh Body Co., 100 Plank Rd., Altoona, Pa.
Budd Co., Automotive Body Div., 2450 Hunting Park Ave., Philadelphia 32, Pa.
California Body & Trailer Mfrs., 180 12th St., San Francisco 3, Calif.
Carnegie Body Co., 6115 Carnegie Ave., Cleveland 3, Ohio.
Chadwick, Inc., Seventh St. & Keystone Ave., Darby, Pa.
Chain Belt Co., 1733 W. Bruce St., Milwaukee 4, Wis. "Rex Motor-Mixer." (Ready mixed concrete.)
Checker Cab Mfg. Corp., 2016 N. Pitcher St., Kalamazoo, Mich.
Clark Co., B. M., Union, Maine.
Cliffside Body Corp., 230 Laird Ave., Cliffside Park, N. J. (Also stake.)
Coach & Body Co., 9503 Woodland Ave., Cleveland 4, Ohio. Utility bodies for line construction.
Commercial Sales Co. Div. of Cochran & Celli, 1100 Eighth Ave., Oakland 6, Calif.
Cook & Co., Hazlehurst, Ga.
Corbitt Co., Henderson, N. C.
Cutler Metal Products Co., 1029 Line St., Camden, N. J.
DeKalb Commercial Body Co., 229 Garden St., DeKalb, Ill. (Stake, milk delivery and van.)

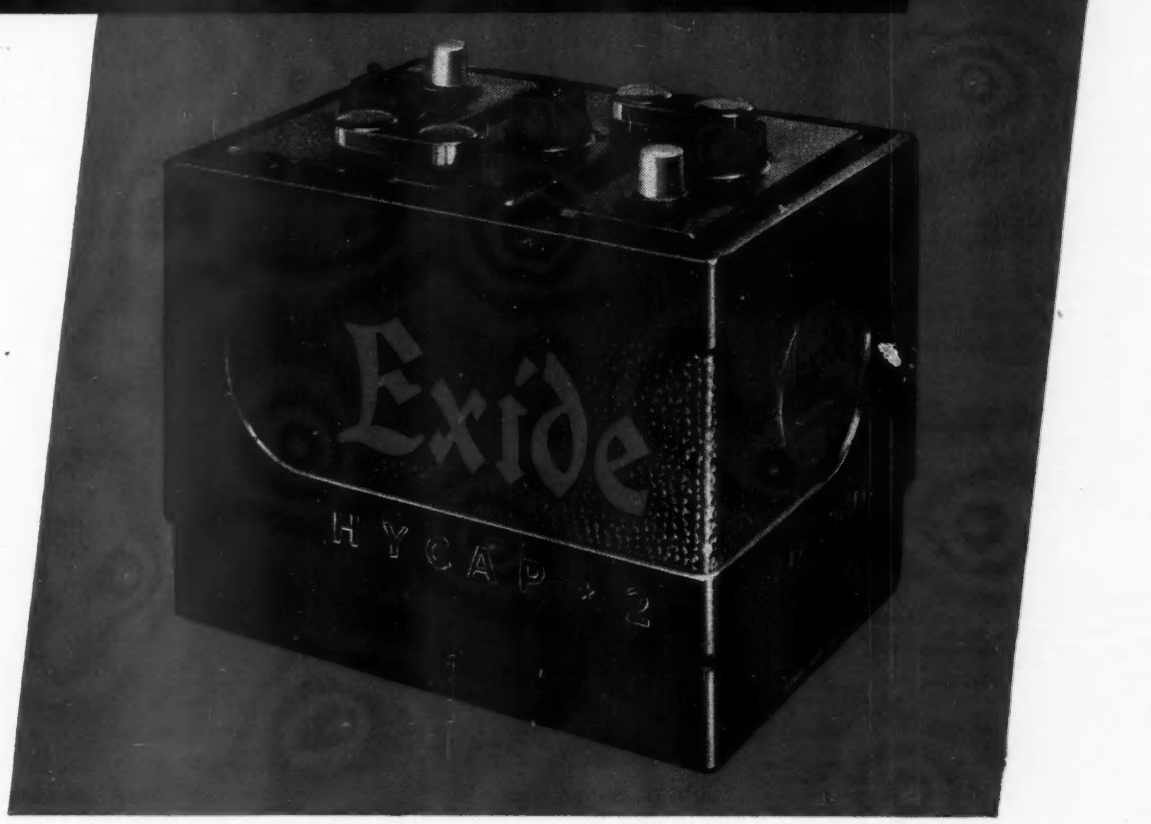
BODIES, Commercial—*cont.*

Delphi Body Works, 311 S. Washington St., Delphi, Ind. (Also public utility.)
Dorsey Trailers, Elba, Ala.
Dow Body Co., Henry E., 1600 Chambers St., Trenton 10, N. J.
Dura-Bilt Body Co., 2419 Massachusetts Ave., Cambridge 40, Mass.
Eagle Div., Four-Wheel Drive Auto Co., 414 E. Winnebago St., Appleton, Wis. (Utility line construction.)
Edwards Iron Works, 2901 S. Main St., South Bend 23, Ind.
Engineering and Research Corp., Riverdale, Md. "Erco."
Eureka Co., 312 W. First St., Rock Falls, Ill. (Hearse and ambulance, for Cadillac chassis.)
Evans Mfg. Co., John, 108 E. Liberty St., Sumter, S. C.
Farrell Mfg. Co., 804 E. Cass St., Joliet, Ill. (Public utility.)
Feigelson Co., Alex., 500 S. Fourth St., Beaumont, Tex.
Fly & Harwood, 300 Madison Ave., Memphis 1, Tenn.
Four Wheel Drive Auto Co., Eagle Div., 414 E. Winnebago St., Appleton, Wis. (Utility line construction; sole distributors, Graybar Electric Co., Lexington Ave. & 43rd St., New York 17, N. Y.)
Franklin Auto Body & Equipment Corp.; 616 Franklin Ave., Brooklyn, N. Y.
G & G Mechanical Co., 722 N. Main St., Fort Worth 6, Tex.
General Body Mfg. Co., 713 W. Pennway, Kansas City, Mo.
Gentry Body & Trailer Co., N. Fourth St., Chickasha, Okla.
Gertenslager Co., Wooster, Ohio. (Truck and van.)
Giant Mfg. Co., 12th Ave. & S. Sixth St., Council Bluffs, Iowa. (Farm.)
Giffel Body Mfg. Co., 845 Lafayette Ave., Terre Haute, Ind.
Glasier Body Co., 391 Adams St., Newark 5, N. J.
Gramm Trailer Corp., Old National Bank Bldg., Delphos, Ohio.
Gregg Mfg. Co., Bradford & Endicott Sts., St. Paul, Minn.
Hackney Bros. Body Co., Goldsboro St., Wilson, N. C. (Refrigerator and dairy.)
Halsey Machine & Mfg. Co., 131 Arrowhead Ave., San Bernardino, Calif. (Bottling and oil.)
Hayes Mfg. Corp., 551 Seventh St., N.W., Grand Rapids 2, Mich.
Hercules-Campbell Body Co., Tarrytown, N. Y.
Hercules Mfg. Co., 1501 W. Franklin St., Evansville 10, Ind.
Hercules Steel Products Co., Box 477, Galion, Ohio.
Herman Body Co., 4400 Clayton Ave., St. Louis 10, Mo.
Hesse Carriage Co., 1701 Cherry St., Kansas City, Mo.
Hesse & Eisenhardt Co., Blue Ash Ave., Rossmoyne, Ohio. (Ambulance and funeral car.)
Highway Trailer Co., 421 E. Fulton St., Edgerton, Wis.
Hobbs Mfg. Co., 609 N. Main St., Fort Worth 1, Tex.
Hoiby Body Co., E., 2010 Washington Ave., N., Minneapolis, Minn.
Hubbard Mfg. Co., Farmland, Ind. (Service car.)
Hughes-Keenan Corp., Burkett Body Div., 102 Clinton St., Dayton, Ohio.
Indiana Body Co., 615 S. H St., Richmond, Ind.
Jannell & Son Body Co., Cumberland Hill Rd., Woonsocket, R. I.
Jensen's Body Shop, Phillips, Wis.
Joplin Body & Trailer Co., 730 E. Fifth St., Joplin, Mo.
Kammer Body Corp., 150 Beaver St., Jamaica 4, N. Y.
Kennedy Mfg. Co., 501 N. Monroe St., Streator, Ill. (Grain and live stock.)
Kensington Wagon Works, 2756 Frankford Ave., Philadelphia 34, Pa.
Kentucky Mfg. Co., Third & K Sts., Louisville 8, Ky.
Ketter Truck Bodies, Inc., Third & Ellison Ave., Ironton, Ohio. "Markette."
Kewanee Mfg. Co., 1920 Quincy St., Kewanee, Wis.
Keystone Trailer & Equipment Co., 1501 Guinotte Ave., Kansas City 1, Mo.
Keystone Wagon Works, Inc., Second & Norris Sts., Philadelphia 22, Pa. (Refrigerator.)
Kiley Co., James A., 15 Linwood St., Somerville, Mass. (Also public utility.)
Kingham Trailer Co., 15th & Hill Sts., Louisville 10, Ky. "Kingham-Universal."
Kirk & Blum Mfg. Co., 2819 Spring Grove Ave., Cincinnati, Ohio. "K & B." (Stake.)
Knapheide Mfg. Co., Quincy, Ill.
Kneuer & Sons, Inc., M. J., 126 Van Buren St., Newark 5, N. J.
Koch & Son Mfg. Co., 200 Wilson Ave., N. E., St. Cloud, Minn.
Koerner Sons, Inc., John, 94 Walton St., Brooklyn 6, N. Y.
Lacey & Sons Co., W. F., 54 Mystic Ave., Medford, Mass.
Lang Co., 267 W. First South St., Salt Lake City 9, Utah.
Linn Coach & Trailer Corp., 443 Chestnut St., Oneonta, N. Y.
Love Wagon Co., Durant, Mich.
Los Angeles Automotive Works, 1020 Towne Ave., Los Angeles, Calif. (Refrigerator.)
Lu-Met, Inc., 530 E. 12th St., Cincinnati 10, Ohio.
McAvoy & Son, Inc., Peter, 30 Garden St., New Rochelle, N. Y.
McCabe-Powers Auto Body Co., 5900 N. Broadway, St. Louis, Mo. "Powers." (Also public utility.)
MacDonald Truck & Mfg. Div. Peterbilt Motors Inc., 106th St. & McArthur Blvd., Oakland, Calif. (Stake.)
Mahle Auto Body Co., 370 E. Eighth St., St. Paul 1, Minn.
Manchester Truck Body Builders, N. Turner St., Manchester, N. H.
Maryland Mfg. Co., Laurel, Md.
Mason Mfg. Co., 31st St. & Warwick Ave., Newport News, Va.
Meeks Son, S. J., 622 G St., N. W., Washington 1, D. C.
Meteor Motor Car Co., 125 Clark Ave., Piqua, Ohio. (Funeral and ambulance, for Cadillac chassis.)
Met-L-Wood Corp., 6755 W. 65th St., Chicago 38, Ill.
Meyer Body Co., 218 Elm St., Buffalo 3, N. Y. (Refrigerator.)
Mickey Body Co., W. F., 105 Perry St., High Point, N. C.
Mid-State Body Co., Waterloo, N. Y. (Van, panel and stake.) "Leader," "Mid-West."
Midwest Body & Mfg. Div. Electrographic Corp., S. Central St., Paris, Ill.
Midwest Works, Inc., W. on Highway 54, Augusta, Kans. "Augusta."
Miller Co., A. J., Bellefontaine, Ohio. (Ambulance and funeral car.)
Miller & Co., A. C., 17 Courtland St., N. E., Atlanta, Ga.
Miller Trailers, Inc., 708 Third St., W., Bradenton, Fla.
Millington Truck Body Co., 8440 W. State St., Millington, Mich. (Insulated, milk; also stake.)
Modern Auto Body Builders Co., 252 Johnson Ave., Brooklyn 6, N. Y. (Also armored.)
Mohawk Metal Products Co., Frankfort, N. Y. (Bottler's and van.)
Monroe Standard, Inc., Wyandot Bldg., Galion, Ohio. (Stake bodies.)
Montgomery Co., E. R., 2500 St. Louis St., New Orleans 19, La.
Montpelier Mfg. Co., Montpelier, Ohio. "Montpelier Urban." (Parcel delivery and frequent stop.)
Morrison Steel Products, Inc., 601 Amherst St., Buffalo 7, N. Y. (Service and utility.)
Morse Body Mfg. Co., 69 Howard St., Watertown, Mass.
Murphy Body Works, Inc., Herring Ave., Wilson, N. C. (Also refrigerator.)
Nabors Co., W. C., Mansfield, La.
National Body Mfg. Co., Knightstown, Ind. (Ambulance and funeral car.)
National Steel Products Co., 1611 Crystal Ave., Kansas City 3, Mo.
New Haven Carriage & Auto Works, 508 N. W. Everett St., Portland 9, Ore.
Nogues Body Co., 1954 S. Los Angeles St., Los Angeles 11, Cal.
Novelty Carriage Works, 815 Second Ave., Spokane 8, Wash.
Ohio Body Mfg. Co., New London, Ohio.
Olsen & Son, R. P., 920 N. 24th St., Omaha, Neb.
Olson Corp., J. B. E., 2059 Coney Island Ave., Brooklyn, N. Y. "Kurb-Side." (Package delivery for Chevrolet chassis; "Kargo-King" van.)
Olson Mfg. Co., Boise, Ida.
Olson & Son, Inc., Chas., 2945 Pillsbury Ave., Minneapolis, Minn.
Oltman-O'Neill Co., 23500 Sherwood Ave., Centerline, Mich. "Cargo-Tested."
Omaha Standard Body Corp., 2411 W. Broadway, Council Bluffs, Iowa.
Oneida Products Corp., Canastota, N. Y.
Orianna Wagon Works, 448 Orianna St., Philadelphia 23, Pa.
Orrville Body Co., Orrville, Ohio.
Pacific Car & Foundry Co., Fourth & Factory St., Renton, Wash. "Carcovan."
Parsons Engineering Corp., 2345 E. 79th St., Cleveland, Ohio. (Public service.)
Peerless Mfg. Co., 4227 Bluffton Rd., Ft. Wayne 1, Ind.
Penn Body Div., Hockensmith Corp., 1946 Penn St., Penn, Pa.
Perfection Steel Body Co., Perfection Bldg., Galion, Ohio.
Pirsch & Sons Co., Peter, 1308 35th St., Kenosha, Wis. (Fire engine.)
Prawitz & Bayer Co., 1211 S. Tenth St., St. Joseph, Mo.
Providence Body Co., 831 Cranston St., Cranston, R. I. (Also van.)
Quirk Co., 3383 E. Layton Ave., Cudahy, Wis.
Quitsland Coach Body Corp., Taylor Ave. & Aloha St., Seattle 9, Wash.
Reliance Trailer & Truck Co., 2765 16th St., San Francisco 3, Cal.
Rivers Body Factory, 2304 N. Myrtle Ave., Jacksonville 4, Fla.
Robbins & Burke, Inc., 29 Lansdowne St., Cambridge 39, Mass. (Refrigerator and insulated.)
Rock Hill Body Co., W. Main St., Rock Hill, S. C.
Roeder Mfg. Co., Fred, 1392 Atlantic Ave., Brooklyn, N. Y.
Roehlk Spring & Body Co., 417 S. 15th St., St. Louis 3, Mo. (Ambulance, ice, etc.)
Schayer & Badinger, Inc., 724 S. Saratoga St., New Orleans 13, La.
Schmidt Carriage Works, D. H., Ninth & Lafayette Sts., St. Joseph 26, Mo.
Schmitt & Son, Inc., John V., 314 14th St., S.E., Washington 3, D. C.
Sherman & Co., Earl, 2526 Wood St., Oakland 7, Cal. "Esco." (Refrigerated.)
Shop of Siebert, Inc., 614 Southard Ave., Toledo, Ohio. (Ambulance and funeral car, for Ford and Mercury chassis.)
Silver Body Works, Inc., 78 Ingraham St., Brooklyn 6, N. Y.
Soffe & Son, Morris, 170 W. Berks St., Philadelphia 22, Pa.
Spangler Engineering & Sales Co., D. H., 426 S. Third St., Hamburg, Pa.
Specialty Engineering Co., Allegheny & Trenton Aves., Philadelphia 34, Pa. (Bottlers'.)
Springfield Body & Trailer Co., 1631 College St., Springfield, Mo.
Standard Auto Body Co., 4900 S. Soto St., Los Angeles 11, Calif.
Steel Products Co., P. O. Box 1007, Savannah, Ga.
Steffen Body Co., O. F., 613 W. Seventh St., Sioux City 17, Iowa.
Stewart Truck Bodies, Inc., 1785 E. New York Ave., Brooklyn 7, N. Y. (Step in, refrigerator, transportation, van, custom built, platform, stake and ambulance.)
Strick Co., Whitaker Ave. & Godfrey St., Philadelphia 24, Pa.
Superior Auto, Inc., 24 Sprague St., Dayton 7, Ohio.
Superior Coach Corp., E. Kibby St. & D. T. & I. R.R., Lima, Ohio. "De Luxe." (Funeral, ambulance and service car.)
Swab Wagon Co., Elizabeth, Pa.
Swift All-Steel Body Co., 106 Hoyt St., Saginaw 29, Mich.
Syracuse Body Co., 2101 S, Salina St., Syracuse 5, N. Y.
Theurer Wagon Works, Inc., 601 W. 56th St., New York 19, N. Y.
Thomas & Co., Peter, 1320 Main St., Seattle 22, Wash.
Timpte Bros., Inc., E. 40th Ave. & York St., Denver 5, Colo.
Time Saver Body Co., 3035 E. Grand Blvd., Detroit 2, Mich.
Trailco Mfg. & Sales Co., Mill St., Hummels Wharf, Pa.
Transport Equipment Co., P. O. Box 465, Savannah, Ga.
Travelodge Corp., 65 N. Madison St., Tulsa, Okla.
Triangle Body Works, 2012 Waughton Rd., Winston-Salem 6, N. C. (Stake and van.)
Truck & Trailer Industries, Inc., 611 Jackson Ave., New York 55, N. Y.
Truck Engineering Corp., 1285 W. 70th St., Cleveland 2, Ohio. "TEC."
Utility Trailer Mfg. Co., P. O. Box 3608, Terminal Annex, Los Angeles 54, Calif.
Vanette Div. of Brooks & Perkins, Inc., 2457 Woodward Ave., Detroit 1, Mich. (For Ford chassis.)
Veenema & Wiegers, Inc., 241 N. Tenth St., Paterson, N. J.
Veglia, Louis, 1122 St. Peter St., New Orleans 16, La.
Voltz Bros., Inc., 2520 Indiana Ave., Chicago 16, Ill.
Wade & Dunton, Inc., 686 Main St., Lewiston, Maine. (Custom built.)
Walsh Body Sales Corp., 92-96 Prospect St., Somerville 43, Mass.
Ward Motor Vehicle Co., 718 S. Fulton Ave., Mt. Vernon, N. Y.
Washington Auto Carriage Works, W. 34 Second Ave., Spokane, Wash.
Watkins Body Corp., 666 Genesee St., Buffalo, N. Y.

Exide BATTERIES

LOW COST PER MILE OF OPERATION

...plus dependable starting for an EXTRA LONG TIME



All its service-proved features continue to make Exide the outstanding battery for truck service.

1. Heavy, oversize plates
2. Greater capacity
3. Self-cleaning, non-spitting vent plugs
4. Double insulation between plates
5. "Bull's-eye" electrolyte leveling device
6. Heavy inter-cell connectors
7. Hard rubber container
8. Positive cover seals

1888 ... Dependable Batteries for 61 Years ... 1949

"Exide" *Reg. Trade-mark U.S. Pat. Off.*

THE ELECTRIC STORAGE BATTERY COMPANY, Philadelphia 32 · *Exide Batteries of Canada, Limited, Toronto*

1512-1

BODIES, Commercial—cont.

Watkins Truck Industries, Inc., 191 Main St., Tarrytown, N. Y.
Weber Trailer & Mfg. Co., 1104 E. Fifth St., Los Angeles 13, Calif.
Weir Body Co., 4504 Corning St., Omaha 3, Neb.
Welch Mfg. Co., 533 W. Jefferson St., Phoenix, Ariz.
Wentworth & Irwin Inc., 123 N. E. Oregon St., Portland 14, Ore.
Western Motors, Body Div., 4834 Cermak Rd., Cicero, Ill.
Williamsen Body & Equipment Co., 2048 Washington Blvd., Ogden, Utah. "Wabco."
Winter-Weiss Co., 2001 Blake St., Denver 2, Colo.
Yancey Bros., 110 Jackson St., N. E., Atlanta, Ga.
Yankee Motor Bodies, 1224 E. Olympic Blvd., Los Angeles 21, Calif.
York-Hoover Corp., Body Div., Belvidere & Linden Aves., York, Pa. (Also public utility.)

BODIES, Commercial (Prefabricated)

Aluminum Body Corp., 4601 S. Soto St., Vernon 11, Calif.
Brown Trailers, Inc., Box 54, Spokane 1, Wash. (Aluminum.)
Fruehauf Trailer Co., 10940 Harper Ave., Detroit 32, Mich.
Gramm Trailer Corp., Old National Bank Bldg., Delphos, Ohio.
Lindsay Structure, Inc., 5000 Dempster St., Skokie, Ill. (Truck and trailer.)
Parish Pressed Steel Co., Robeson & Weiser Sts., Reading, Pa. (Sections.)
Reynolds Metals Co., 1419 Dixie Highway, Louisville, Ky. (Truck and trailer.)
Rockford Automotive Industries, Inc., 1008 Oak St., DeKalb, Ill. (Pick-up conversion.)

BODIES, Dump

Acme Body Works, 1314 N. Meade St., Appleton, Wis.
Aluminum Body Corp., 4601 S. Soto St., Vernon 11, Calif.
Andrews Industries, Inc., 1013 Ann Ave., St. Louis 4, Mo.
Anthony Co., Streator, Ill.
Atlas Body & Equipment Co., 4150 E. Thompson St., Philadelphia 37, Pa.
Auto Truck Equipment Co., 7501 Penn Ave., Pittsburgh 8, Pa. "Ateco."
Baughman Mfg. Co., Jerseyville, Ill. (Farm, coal, fuel, lime and fertilizer.)
Clark Co., B. M., Union, Maine.
Converto Co., 51st St. & Allegheny Valley R. R., Pittsburgh, Pa. (Portable.)
Daybrook Hydraulic Corp., Bowling Green, Ohio.
Dorsey Trailers, Elba, Ala.
Dura-Bilt Body Co., 2419 Massachusetts Ave., Cambridge 40, Mass.
Easton Car & Construction Co., Easton, Pa. (Heavy duty.)
Edwards Iron Works, Inc., 2301 S. Main St., South Bend 23, Ind. (Platform, stock and grain.)
Galion Allsteel Body Co., 500 S. Market St., Galion, Ohio.
Gar Wood Industries, Inc., Wayne Div., Wayne, Mich. "GW," "Load Packer." (Garbage and rubbish collection unit.)
Grace Mfg. Co., W. E., 7000 S. Lamar St., Dallas, Tex. (Garbage collection.)
Greenville Steel & Foundry Co., Greenville, S. C.
Heil Co., 3000 W. Montana St., Milwaukee 1, Wis.
Hercules-Campbell Body Co., Tarrytown, N. Y.
Hercules Steel Products Co., Box 477, Galion, Ohio.
Independent Iron Works, Eighth & Pine Sts., Oakland 21, Calif.
Jensen's Body Shop, Phillips, Wis.
Kewanee Mfg. Co., 1642 Burlington Ave., Kewanee, Ill.
Keystone Trailer & Equipment Co., 1501 Guinotte Ave., Kansas City 1, Mo.
Lang Co., 267 W. First South St., Salt Lake City 9, Utah. (Steel.)
Lu-Met, Inc., 530 E. 12th St., Cincinnati 10, Ohio.
Marion Metal Products Co., Cheney Ave., Marion, Ohio.
Maryland Mfg. Co., Laurel, Md.
Montgomery Co., E. R., 2500 St. Louis St., New Orleans 19, La.
National Steel Products Co., 1611 Crystal Ave., Kansas City 3, Mo.
National Truck Equipment Co., 225 Madison St., Waukesha, Wis. "Dump-O-Matic."
Olson Mfg. Co., Boise, Idaho.
Palm Bros. Body Co., Eighth & Buttonwood Sts., Reading, Pa. "Hi-Lift." (Coal.)
Penn Body Div., Hockensmith Corp., 1946 Penn St., Penn, Pa.
Perfection Steel Body Co., Perfection Bldg., Galion, Ohio.
Providence Body Co., 831 Cranston St., Cranston, R. I.
R. B. Co., Quinotte & Euclid Sts., Kansas City 1, Mo. (Lumber roll-off.)
Rodenhausen's Excelsior Wagon Works, Ninth & Jefferson Sts., Philadelphia 22, Pa.
Roeder Mfg. Co., Fred, 1392 Atlantic Ave., Brooklyn, N. Y.
Roehlk Spring & Body Co., 417 S. 15th St., St. Louis 3, Mo.
St. Paul Div., Gar Wood Industries, Inc., 2207 University Ave., S. E., Minneapolis 14, Minn.
Standard Auto Body Co., 4900 S. Soto St., Los Angeles 11, Calif.
Superior Auto, Inc., 24 Sprague St., Dayton 7, Ohio.
Superior Metal Products, Inc., Branson & 18th Sts., Marion, Ind.
Syracuse Body Co., 2101 S. Salina St., Syracuse 5, N. Y.
Thomas & Co., Peter, 1320 Main St., Seattle 22, Wash.
Timpte Bros., Inc., E. 40th Ave. & York St., Denver 5, Colo.
Truck Engineering Co., 3200 E. Pontiac St., Fort Wayne 4, Ind. "Aristocrat."
Truck Engineering Corp., 1285 W. 70th St., Cleveland 2, Ohio. "TEC."
Truck Equipment Co., 1791 Fillmore Ave., Buffalo 14, N. Y. "Teco."
Truck Welding & Equipment Co., 739 Ninth Ave. N., Seattle 9, Wash.
Veenema & Wiegers, Inc., 241 N. Tenth St., Paterson, N. J.
Voltz Bros., Inc., 2520 Indiana Ave., Chicago 16, Ill.
Washington Auto Carriage Works, W. 34 Second Ave., Spokane, Wash.
Welch Mfg. Co., 533 W. Jefferson St., Phoenix, Ariz.

BODIES, TANK, See Tanks, Trailer and Truck Body

BOLTS, Connecting Rod

Atlas Bolt & Screw Co., 1130 Ivanhoe Rd., Cleveland 10, Ohio.
Brown Corp., 213 Bellevue Ave., Syracuse, N. Y.
Chicago Screw Co., 2701 Washington Blvd., Bellwood, Ill.
Clawson & Bals, Inc., Holland, Mich.
Federal-Mogul Corp., 11031 Shoemaker Rd., Detroit 13, Mich.
Ferry Bros., 3167 Fulton Rd., Cleveland 9, Ohio.
Ferry Cap & Set Screw Co., 2151 Scranton Rd., Cleveland 13, Ohio.
Ferry Screw Products, Inc., E. W., Brookpark (Berea), Ohio.
Lamson & Sessions Co., 1971 W. 85th St., Cleveland 2, Ohio.
Mac-It Parts Co., Shippen & Liberty Sts., Lancaster, Pa.
Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, N. Y. "Empire."
Western Automatic Screw Machine Co., 752 Lake Ave., Elyria, Ohio.

BOLTS, Spring Center

Atlas Bolt & Screw Co., 1130 Ivanhoe Rd., Cleveland 10, Ohio.
Brown Corp., 213 Bellevue Ave., Syracuse, N. Y.
Burton Auto Spring Corp., 2433 W. 48th St., Chicago 32, Ill.
Champ-Items, Inc., 6191 Maple Ave., St. Louis, Mo.
Chicago Screw Co., 1026 S. Homan Ave., Chicago, Ill.
Dorman Products Inc., 1004 Sycamore St., Cincinnati 2, Ohio.
Lamson & Sessions Co., 1971 W. 85th St., Cleveland 2, Ohio.
Loock & Co., R. J., 343 N. Gay St., Baltimore, Md. "Lightnin."
Pheoll Mfg. Co., 5700 W. Roosevelt Rd., Chicago, Ill.
Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, N. Y. "Empire."
St. Louis Screw & Bolt Co., 69 N. Broadway, St. Louis 15, Mo.
Tuthill Spring Co., 760 W. Polk St., Chicago, Ill.
United Screw & Bolt Corp., 3590 W. 58th St., Cleveland, Ohio.
Western Automatic Machine Screw Co., 752 Lake Ave., Elyria, Ohio.

BOLTS, Spring Shackle

Alloy Mfg. Co., 3207 S. Shields Ave., Chicago 17, Ill. "Quality Built."
Aluminum Industries, Inc., 2438 Beekman St., Cincinnati 25, Ohio. "Permite."
Brown Corp., 213 Bellevue Ave., Syracuse, N. Y.
Chicago Screw Co., 2701 Washington Blvd., Bellwood, Ill.
Clark Bros. Bolt Co., Canal St., Milldale, Conn.
Ferry Cap & Set Screw Co., 2151 Scranton Rd., Cleveland 13, Ohio.
Fostoria Screw Co., 250 E. Fourth St., Fostoria, Ohio.
King Quality Products Co., 2320 Marconi St., St. Louis 10, Mo.
McQuay-Norris Mfg. Co., 2320 Marconi St., St. Louis, Mo.
Majestic Handle Co., 2515 S. Wabash Ave., Chicago, Ill. (Rubber insulated, sole distributors, Leterstone Sales Co., 2515 S. Wabash Ave., Chicago, Ill.)
Metzger Welding Co., 1652 Powers St., Cincinnati, Ohio.
Monmouth Products Co., 6545 Carnegie Ave., Cleveland 3, Ohio.
Perfection Spring Co., 3721 King Ave., Cleveland 14, Ohio.
Precision Parts Co., Div. Economy Baler Co., 1200 N. Main St., Ann Arbor, Mich.
Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, N. Y. "Empire."
Service Spring Co., Box 638, Indianapolis 6, Ind. "Hendrix." (For Ford and Mercury cars.)
Simmons Mfg. Co., Ashland, Ohio.
Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio.
Western Automatic Machine Screw Co., 752 Lake Ave., Elyria, Ohio.

BOOSTERS, BRAKE, See Brakes, Vacuum Power

BOOSTERS, STEERING, See Gears, Steering (Booster Units)

BOOTHS, Spraying (Paint and Varnish)

American Brake Shoe Co., Kellogg Div., 97 Humboldt St., Rochester 9, N. Y. "Brake-Shoe."
Binks Mfg. Co., 3114 Carroll Ave., Chicago 12, Ill.
Black Mfg. Co., 1416 W. Baltimore St., Baltimore 23, Md.
Despatch Oven Co., 619 Eighth St., S. E. Minneapolis 14, Minn.
Detroit Sheet Metal Works, 1308 Oakman Blvd., Detroit, Mich.
De Vilbiss Co., 300 Phillips Ave., Toledo 1, O.
Macleod Co., 2232 Bogen St., Cincinnati 23, Ohio.
Mahon Co., R. C., 8650 Mt. Elliott Ave., Detroit, Mich.
Newcomb-Detroit Co., 5741 Russell St., Detroit 11, Mich. "Uni-Wash."
Paasche Airbrush Co., 1909 Diversey Parkway, Chicago 14, Ill.
Peters-Dalton, Inc., 17924 Ryan Road, Detroit 12, Mich. "Hydro-Whirl."
Schmieg Industries, Inc., 308 Piquette St., Detroit 2, Mich.
Spray Engineering Co., 114 Central St., Somerville 45, Mass. "Spraco."

BORING BARS, See Tools, Cylinder Re-boring

BORING MACHINES, See Machines, Boring

BRAKE LINING, See Lining, Brake

BRAKE LINING GRINDERS, See Grinders, Brake Lining

BRAKE LOCKS, See Locks, Brake

BRAKE PARTS, See Parts, Brake

BRAKE RELINING MACHINES, See Machines, Brake Relining

BRAKE SHOES, See Shoes, Brake

BRAKES, Air

Auto Specialties Mfg. Co., 557 Graves St., St. Joseph, Mich. "Lambert." (Disc.)
Bendix-Westinghouse Automotive Air Brake Co., 901 Cleveland Rd., Elyria, Ohio. (Also accessory units.)
Midland Steel Products Co., 6660 Mt. Elliott Ave., Detroit 11, Mich. "Midland-Christensen."
Timken-Detroit Axle Co., 100 Clark Ave., Detroit 32, Mich. (For trucks and buses.)
Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo.

BRAKES, Electric

Warner Electric Brake Mfg. Co., P. O. Box 620, Beloit, Wis. (Truck.)

This
SEALED POWER RING
does the world's finest job of
OIL WIPING
OIL DRAINING
OIL SAVING
on
BADLY
TAPERED
and
OUT-OF-ROUND
BORES!
P. S. Starts easily, too!
MD-50
STEEL OIL RING
the only ring with the
FULL-FLOW SPRING
LONG
CURVES
INSTEAD OF
SHORT CRIMPS
GIVE POSITIVE PRESSURE
TWICE
AS MANY SLOTS
CAN'T BLOCK ANY
PISTON OIL HOLES
FULL-FLOW SPRING
SINGLE-SLOT SPRING
SELL
SEALED POWER
FOR
SUPER-
SATISFACTION!
SEALED POWER
Individually Engineered
PISTON RING SET
SEALED POWER
CORPORATION
MUSKEGON, MICH.
1842-1
Sealed Power
PISTON RINGS
BEST IN NEW TRUCKS!
BEST IN OLD TRUCKS!

BRAKES, Hydraulic

Auto Specialties Mfg. Co., 557 Graves St., St. Joseph, Mich. "Lambert." (Disc.)
Bendix Products Div., Bendix Products Corp., 401 Bendix Drive, South Bend 20, Ind.
Kelsey-Hayes Wheel Co., 3600 Military Ave., Detroit 32, Mich.
Martin Co., Glenn L., Baltimore 3, Md.
Timken-Detroit Axle Co., 100 Clark Ave., Detroit 32, Mich. (For trucks and buses.)
Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo. ["Wagner Lockheed" (Licensees); "Hi-Tork." (For commercial vehicles.)]

BRAKES, Master Cylinders (Hydraulic)

Minnesota Automotive, Inc., 1328 Hennepin Ave., Minneapolis 3, Minn. "Mico."
New York Air Brake Co., 420 Lexington Ave., New York 17, N. Y. "Hycon." (For light and medium trucks and buses.)
Supco Products Corp., S. Bayview Ave., Amityville, L. I., N. Y.
Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo. "Wagner Lockheed."

BRAKES, Mechanical

American Chain & Cable Co., Automotive & Aircraft Div., 6-235 General Motors Bldg., Detroit 2, Mich. "Tru-Stop."
Auto Specialties Mfg. Co., 557 Graves St., St. Joseph, Mich. "Lambert." (Disc.)
Bendix Products Div., Bendix Aviation Corp., 401 Bendix Drive, South Bend 20, Ind.
Kelsey-Hayes Wheel Co., 3600 Military Ave., Detroit 32, Mich.
Shuler Axle Co., 2901 S. Second St., Louisville 8, Ky.
Warner Gear Div., Borg-Warner Corp., 1106 E. Seymour St., Muncie, Ind.

BRAKES, Trailer

Austin Trailer Equipment Co., 1148 W. Western Ave., Muskegon, Mich.
Bendix Products Div., Bendix Aviation Corp., 401 Bendix Drive, South Bend 20, Ind. "Bendix B-K." (Vacuum power.)
Dorsey Trailers, Elba, Ala.
Hammer Blow Tool Co., 602½ Third St., Wausau, Wis.
Kay-Brunner Steel Products, Inc., 999 Meridan Ave., Alhambra, Calif. (Mechanical.)
Kelsey-Hayes Wheel Co., 3600 Military Ave., Detroit 32, Mich. "Magdraulic." (Electric; "Lathan" vacuum power.)
Midland Steel Products Co., 6660 Mt. Elliott Ave., Detroit 11, Mich. (Air and vacuum.)
Roadmaster Products Co., 3350 San Fernando Rd., Los Angeles 7, Calif. "Besler," "Roadmaster." (Vacuum power.)
Shuler Axle Co., 2901 S. Second St., Louisville 8, Ky. (Mechanical, vacuum or air.)
Spencer Trailer Co., Augusta, Kans. "Spencer Trail-Lite."
Standard Forge & Axle Co., Hunter Station, Montgomery 2, Ala. (Vacuum or compressed air.)
Timken-Detroit Axle Co., 100 Clark Ave., Detroit 32, Mich. (Air and hydraulic.)
Utility Trailer Mfg. Co., P. O. Box 3608, Terminal Annex, Los Angeles 54, Calif.
Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo. (Compressed air.)
Warner Electric Brake Mfg. Co., P. O. Box 620, Beloit, Wis. (Electric.)

BRAKES, Vacuum Power

Bendix Products Div., Bendix Aviation Corp., 401 Bendix Drive, South Bend 20, Ind. "Bendix B-K," "Hydrovac."
Gilmore & Spaulding, 365 W. Claremont St., Pasadena, Calif. "Rocket." (Sole distributors, South Gate Brake Specialties Co., 9809 Long Beach Blvd., South Gate, Calif.)
Kelsey-Hayes Wheel Co., 3600 Military Ave., Detroit 32, Mich. "Vacdraulic." (Auto and truck; "Lathan" auto, truck and bus.)
Midland Steel Products Co., 6660 Mt. Elliott Ave., Detroit 11, Mich. "Midland-Christensen."
Roadmaster Products Co., 3350 San Fernando Rd., Los Angeles 7, Calif. "Besler," "Road-Master."
Velvac, Inc., 3530 W. Pierce St., Milwaukee 4, Wis.

BREAKER ARMS, See Arms, Breaker

BREAKER POINTS, See Points, Ignition

BREAKERS, Circuit

Allis-Chalmers Mfg. Co., Milwaukee 1, Wis.
Andrews Mfg. Co., 924 S. Thersea Ave., St. Louis 3, Mo.
Bulldog Electric Products Co., 7610 Jos Campau Ave., Detroit 32, Mich. "Circuit Master."
Fasco Industries, Inc., 400 Davis St., Rochester 2, N. Y.
General Electric Co., 1 River Road, Schenectady 5, N. Y.
I-T-E Circuit Breaker Co., 19th & Hamilton Sts., Philadelphia 30, Pa. "I-T-E," "U-Re-Lite," "Itelite."
Leece-Neville Co., 5363 Hamilton Ave., Cleveland 14, Ohio.
Littlefuse, Inc., 4757 Ravenswood Ave., Chicago 40, Ill.
R-B-M Div., Essex Wire Corp., Chestnut & Hanna Sts., Logansport, Ind.
Reynolds Mfg. Co., 1805 Alamo National Bldg., San Antonio 5, Tex. "Remco."
Spencer Thermostat Div., Metals & Controls Corp., 34 Forest St., Attleboro, Mass. "Klixon."
Square D Co., 6060 Rivard St., Detroit 11, Mich.
Wells Mfg. Corp., 200 W. Division St., Fond du Lac, Wis.
Westinghouse Electric Corp., 306 Fourth Ave., Pittsburgh, Pa. "De-ion."

BRUSHES, Carbon Cleaning (Hand)

Millers Falls Co., Greenfield, Mass.
New Britain Machine Co., 140 Chestnut St., New Britain, Conn.
Osborn Mfg. Co., 5401 Hamilton Ave., N.E., Cleveland 14, Ohio.
Pittsburgh Plate Glass Co. (Brush Div.), Baltimore, Md. "Even Trim."
Rinck-McIlwaine, Inc., 16 Hudson St., New York 13, N. Y. "Rimac."
Worcester Brush & Scraper Co., 38 Austin St., Worcester, Mass.

BRUSHES, Carbon Removing

Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.
Bradford Machine Tool Co., 657 Evans St., Cincinnati 4, Ohio.
Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio. "Herbrand," "Van Chrome."
Herold Mfg. Co., 3927 Clark Ave., Cleveland 9, Ohio.
Independent Pneumatic Tool Co., 175 State St., Aurora, Ill. "Thor."
Keystone Reamer & Tool Co., Millersburg, Pa.
Milwaukee Brush Mfg. Co., 2326 N. 30th St., Milwaukee 8, Wis.
New Britain Machine Co., 140 Chestnut St., New Britain, Conn.
Osborn Mfg. Co., 5401 Hamilton Ave., N. E., Cleveland 14, Ohio.
Pittsburgh Plate Glass Co. (Brush Div.), 3221 Frederick Ave., Baltimore 29, Md. "Perfect Balance."
Rinck-McIlwaine, Inc., 16 Hudson St., New York, N. Y. "Rimac."
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. "Blue point."
United States Electrical Tool Co., 1050 Findlay St., Cincinnati 14, Ohio.
Van Dorn Electric Tools Towson 4, Md.
Wilde Drop Forge & Tool Co., 2938 Fairmount Ave., Kansas City, Mo
Worcester Brush & Scraper Co., 38 Austin St., Worcester, Mass.

BRUSHES, Generator, Horn and Starter

American Motor Products Co., Fond du Lac, Wis. "Ampco."
Andrews Mfg. Co., 924 S. Thersea Ave., St. Louis 3, Mo.
Automotive Specialty Co., 1562 DeKalb Ave., Brooklyn 27, N. Y. "Tasco." (Generator and starter.)
Becker Brothers' Carbon Co., 3450 S. 52nd Ave., Cicero 50, Ill. "B.B.B." (Generator and starter.)
Carbone Co., Myrtle Ave., Boonton, N. J.
Echlin Mfg. Co., 220 East St., New Haven, Conn. (Generator and starter.)
F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill. "Filko." (Generator and starter.)
Guaranteed Parts Co., Seneca Falls, N. Y. "GP."
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.
Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich. "Mapco."
Monarch Insulated Wire Co., 491 Broadway, New York 12, N. Y.
National Ignition Mfg. Co., 521 W. 23rd St., New York, N. Y. "Nimco."
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.
Ohio Carbon Co., 12508 Berea Rd., Cleve. 11, Ohio.
P. & D. Mfg. Co., 1902 Steinway St., Long Island City, L. I., N. Y. (Generator and starter.)
Paragon Products Corp., 156 Astor St., Newark 5, N. J. "Vulcan," (Generator and starter; sole distributors, Vulcan Motor Products, Inc., 1060 Broad St., Newark 2, N. J.)
Preferred Electric & Wire Co., Bush Terminal Bldg., No. 8, Brooklyn 32, N. Y.
Pure Carbon Co., 441 Hall Ave., St. Marys, Pa.
Shurhit Products, Inc., Waukegan, Ill. (Starter and generator.)
Sorensen Mfg. Co., P., 32-31 57th St., Woodside, N. Y.
Speer Carbon Co., St. Marys, Pa.
Stackpole Carbon Co., Tannery St., St. Marys, Pa.
Standard Motor Products, Inc., 3718 Northern Blvd., Long Island City, L. I., N. Y. "Blue Streak," "Standard." (Generator and starter.)
United States Graphite Co., 1621 Holland Ave., Saginaw, Mich. "U. S. G."
Wells Mfg. Corp., 200 W. Division St., Fond du Lac, Wis. (Generator and starter.)

BUFFERS, Portable

Baldor Electric Co., 4357 Duncan Ave., St. Louis 10, Mo.
Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.
Bradford Machine Tool Co., 657 Evans St., Cincinnati 4, Ohio. "Admiral," "Metalmaster."
Hisey-Wolf Machine Co., Div. Smith & Mills Co., 2889 Spring Grove Ave., Cincinnati 25, Ohio.
Independent Pneumatic Tool Co., 175 State St., Aurora, Ill.
Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y.
Rotor Tool Co., 17325 Euclid Ave., Cleveland 12, Ohio.
Van Dorn Electric Tools, Towson 4, Md.
Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K.R.W."

BUFFERS, Tire (Electric)

Albertson & Co. 3100 Lowell Ave., Sioux City, Iowa. "Sioux."
Balloon Tire Mould Co., 527 Ceres Ave., Los Angeles 13, Calif. "Brown."
Cincinnati Electrical Tool Co., 2699 Madison Rd., Cincinnati 8, Ohio.
Keel & Co., 65 W. Penn St., Philadelphia 44, Pa. "Blue Streak."
Super Mold Corp. of Calif., 420 N. Sacramento St., Lodi 2, Calif.
U. S. Electrical Motors, Inc., 200 E. Slauson Ave., Los Angeles 54, Calif. "AutoStart."
United States Electrical Tool Co., 1050 Findlay St., Cincinnati 14, Ohio.

BULBS, See Lamps, Bulbs, Miniature, Incandescent

BUMPERS

Bath Co., Cyril, Metal Form Div., E. 70th & Machinery Ave., Cleveland 3, Ohio.
Central Motors Co., 906 Austin Ave., Waco, Tex. "General Purpose." (Rear, for Dodge trucks.)
Electric Auto-Lite Co., Sharonville, Ohio.
Houdaille-Hershey Corp., Chicago Bumper Div., 1455 W. 38th St., Chicago 9, Ill.
Houdaille-Hershey Corp., Detroit Bumper Div., 2660 E. Grand Blvd., Detroit 11, Mich.
Houdaille-Hershey Corp., Huntington Div., 900 Ninth Ave., W., Huntington, W. Va.
Hutchinson Co., 5931 St. Vincents Ave., Shreveport, La. "Redi-Fit." (Rear, for light trucks.)
Michigan Bumper Corp., 740 Ann St., Grand Rapids, Mich.
Nash Bros. Co., Dewey Ave. & Payne St., Evanston, Ill. "Body-Gard." (Channel, for trucks and buses.)
Parish Pressed Steel Co., Robeson & Weiser Sts., Reading, Pa.
Standard Steel Spring Co., Coraopolis, Pa. (Also trailer.)
United States Spring & Bumper Co., 4951 Alcoa Ave., Los Angeles 11, Calif.

BUSES

ACF-Brill Motors Co., 62nd St. & Woodland Ave., Philadelphia 42, Pa. (Also trolley coaches.)
Available Truck Co., 2501 Elston Ave., Chicago, Ill. (Gasoline or Diesel.)
Beaver Metropolitan Coaches, Inc., 24th St. Ext., Beaver Falls, Pa.

NEW BIG POWER

in Studebaker's medium-duty trucks!

THESE sensational new "Power Plus" Studebaker trucks now offer you challenging opportunities for savings on your medium-duty hauling.

Yes, Studebaker's new 16A and 17A series trucks, with their exceptionally fine Studebaker "Power Plus" engine, are rolling up remarkable performance records and economy records for many a firm in many diversified lines of business.

With plenty of pounds feet of torque, these husky, handsome, new Studebakers are fast becoming recognized as America's stand-out 1½ ton and 2 ton trucks in pulling power and staying power.

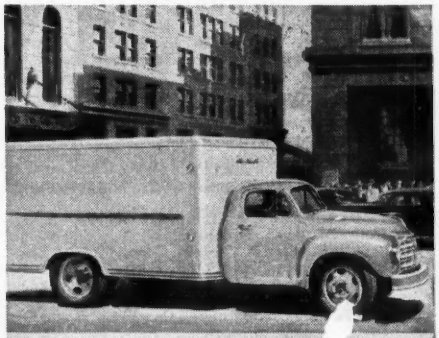
What's more, every structural detail of these rugged medium-duty Studebakers has the stand-up stamina of Studebaker's wear-resisting master craftsmanship.

Full box-section cross members fortify the sturdy frames—and there's an exclusive Studebaker K-member up front for extra strength.

The frames have a "plus" of length for maximum load space. The rear axles, the rear and front springs, take the toughest kind of punishment in stride.

The new Studebaker truck cab is extra roomy and extra cozy—a new marvel of comfort and convenience. Steps are enclosed inside the doors. New Adjusto-Air seat cushion is standard equipment.

Stop in and see these "Power Plus" Studebakers—compare them against the field and you're sure to rate them tops in value.



Studebaker 1½ and 2 ton trucks come in four wheelbases for 9 ft., 12 ft., 14 or 15 ft. and 17 or 18 ft. bodies. Be sure to see Studebaker's new ½-ton, ¾-ton and 1-ton trucks, too—available with pick-up or stake bodies or as chassis for special bodies.

3811-1

BUSES—cont.

Beck & Co., C. D., Sidney, Ohio.
Biederman Motors Corp., 2131 Spring Grove Ave., Cincinnati 14, Ohio.
Chevrolet Motor Div. of General Motors Corp., General Motors Corp., Detroit 2, Mich.
Condor Motors, Inc., 221 N. La Salle St., Chicago, Ill.
Corbitt Co., Henderson, N. C.
Cub Industries Inc., White Pigeon, Mich.
Federal Motor Truck Co., 5780 Federal Ave., Detroit 9, Mich.
Fitz John Coach Co., Muskegon, Mich.
Flexible Co., 326 N. Water St., Loudonville, Ohio.
Ford Motor Co., 3000 Schaefer Rd., Dearborn, Mich. (Chassis only.)
GMC Truck & Coach Div., General Motors Corp., 660 South Blvd., E., Pontiac 11, Mich. "Yellow Coach."
General American Aerocoach-Motor Coach Div., General American Transportation Corp., 135 S. La Salle St., Chicago, Ill. "Aerocoach."
Hahn Motors, Inc., 400 S. Third St., Hamburg, Pa.
Kalamazoo Coaches, Inc., 134 N. Pitcher St., Kalamazoo, Mich. "Pony Cruiser."
Kenworth Motor Truck Corp., 8801 E. Marginal Way, Seattle, Wash.
Mack Mfg. Corp., Empire State Bldg., 350 Fifth Ave., New York 1, N. Y. (Gasoline and Diesel.)
Marmon-Herrington Co., 1511 W. Washington St., Indianapolis 7, Ind. (Trolley coaches.)
Metropolitan Motor Coaches, Inc., Highland Park, Mich.
Reo Motors, Inc., 1331 S. Washington St., Lansing, Mich.
Southern Coach Mfg. Co., Evergreen, Ala.
Spartan Coach & Mfg. Co., 613 N. Centerville Rd., Sturgis, Mich.
Studebaker Corp., 635 S. Main St., South Bend 27, Ind. (Chassis only.)

Superior Coach Corp., E. Kibby St. & D. T. & I. R.R., Lima, Ohio.
Transit Buses, Inc., 11343 Schaefer Rd., Detroit 27, Mich.
Twin Coach Co., 850 W. Main St., Kent, Ohio. (Gasoline and Diesel buses and electric trolley buses.)
White Motor Co., 842 E. 79th St., Cleveland 1, Ohio.

BUSHINGS, See Bearings and Bushings

BUSHINGS, Bronze

Aluminum Industries, Inc., 2438 Beekman St., Cincinnati 25, Ohio. "Permite."
American Motor Products Co., Fond du Lac, Wis. "Ampco."
American Non-Gran Bronze Co., Lancaster Ave., Berwyn, Pa.
Ampco Metal, Inc., 1745 S. 38th St., Milwaukee 4, Wis. (Also aluminum bronze.)
Andrew Parts Mfg. Co., 49 Amsterdam Ave., New York, N. Y.
Automotive Specialty Corp., 1562 DeKalb Ave., Brooklyn 27, N. Y. "Tasco." (For starters and generators.)
Bearium Metals Corp., 268 State St., Rochester 4, N. .
Beckett Bronze Co., 20th & S. Walnut Sts., Muncie, Ind.
Belmont Smelting & Refining Works, 326a Belmont Ave., Brooklyn, N. Y.
Bohn Aluminum & Brass Corp., 1400 Lafayette Bldg., Detroit 26, Mich.
Buckeye Brass & Mfg. Co., 6410 Hawthorne Ave., Cleveland, Ohio.
Bunting Brass & Bronze Co., 715 Spencer St., Toledo 9, Ohio.
Burlington Brass Works, Burlington, Wis.
Central Steel & Wire Co., 3000 W. 51st St., Chicago 80, Ill.
Cleveland Graphite Co., 17000 St. Clair Ave., Cleveland 10, Ohio.
Dayton Bronze Bearing Co., 303 Keowee St., Dayton, Ohio.
Erie Bronze Co., 355 W. 19th St., Erie, Pa.
F. & B. Mfg. Co., 4248 W. Chicago 51, Ill. "Filko." (Generator, starter and distributor.)
Federal-Mogul Corp., 11031 Shoemaker Rd., Detroit 13, Mich.
Federal-Mogul Corp., Western Mfg. Div., 250 14th St., San Francisco, Calif. "F.M."
Grand Haven Brass Foundry, 230 N. Hopkins St., Grand Haven, Mich.
Green Line Co., 6545 Carnegie Ave., Cleveland 3, Ohio.
Guaranteed Parts Co., Seneca Falls, N. Y. (For generators and starters.)
Hewitt Metals Corp., 12th St. at Stanley Ave., Detroit, Mich.
Johnson Bronze Co., 510 S. Mill St., New Castle, Pa.
Kendrick Mfg. Co., 2705 Wight St., Detroit, Mich.
Markey Bronze Bushing Co., Delta, Ohio.
Moccasin Bushing Co., Chestnut & 20th Sts., Chattanooga, Tenn.
Monmouth Products Co., 6545 Carnegie Ave., Cleveland 3, Ohio.
Moraine Products Div., General Motors Corp., 1420 Wisconsin Blvd., Dayton, Ohio. "Durex," "Moraine."
Mueller Brass Co., 1925 Lapeer Ave., Port Huron, Mich. "Streamline."
National Formetal Co., 6536 Metta Ave., Cleveland 14, Ohio. "Formetal."
Neveroil Bearing Co., 29 Foundry St., Wakefield, Mass. "Coprex."
Perfect Parts, Inc., 55 Amsterdam Ave., New York 23, N. Y. (Connecting rod and piston pin.)
Pittsburgh Brass Mfg. Co., 3155 Penn Ave., Pittsburgh 1, Pa.
Randall Graphite Products Corp., 609 W. Lake St., Chicago 6, Ill. (Graphite.)
Shook Bronze Corp., Greenlawn & Lake Sts., Lima, Ohio.
Standard Brass Works, 1810 W. St. Paul Ave., Milwaukee, Wis.
Superior Brass Works, 312 S. Crawford St., Detroit 17, Mich.
Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio.
United American Metals Corp., 200 Diamond St., Brooklyn 22, N. Y. "Autocrat," "Centrifcast," "XX Autocrat."
Wagner Mfg. Co., E. R., 4611 N. 32nd St., Milwaukee 9, Wis.

BUSHINGS, Rubber

Anchor Rubber Products, Inc., 1725 London Rd., Cleveland 12, Ohio. "Steelastic."
Automotive Mfg. Co., 570 W. Fulton St., Chicago 22, Ill. "Amko."
Doan Mfg. Corp., 1644 Doan Ave., East Cleveland 12, Ohio. "Armor-Flex."
Goodrich Co., B. F., 500 S. Main St., Akron, Ohio.
Harris Products Co., 5105 Cowan Ave., Cleveland, Ohio.
Hewitt Rubber Div., Hewitt-Robins, Inc., 240 Kensington Ave., Buffalo 5, N. Y.
Kuehn Co., N. L., 407 W. Highland Ave., Milwaukee 3, Wis.
Lord Mfg. Co., 1635 W. 12th St., Erie, Pa. (Bonded to metal.)
Monmouth Products Co., 6545 Carnegie Ave., Cleveland 3, Ohio.
Motive Equipment Mfrs., Inc., 5253 W. Roosevelt Rd., Chicago 50, Ill. (Spring shackle.)
Powell Muffler Co., 729 Broad St., Utica 2, N. Y.
Quaker Rubber Corp., Tacony & Comly Sts., Philadelphia 24, Pa.
Raybestos-Manhattan, Inc., Manhattan Rubber Div., 61 Willet St., Passaic, N. J. "Manhattan."
Roberts Toledo Rubber Co., Prospect & MC R.R., Toledo 6, Ohio.
Rodic Rubber Corp., Allen Ave., New Brunswick, N. J.
Santay Corp., 351 N. Crawford Ave., Chicago 24, Ill. "Shock-Proof."
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.
Wennett-Gordon Mfg. Co., 35 India St., Boston, Mass. "Wengo."

BUSHINGS, Steel

Aluminum Industries, Inc., 2438 Beekman St., Cincinnati 25, Ohio. "Permite."
Bard Mfg. Co., Royersford, Pa.
Brown Corp., 213 Bellevue Ave., Syracuse, N. Y.
Hill Nut Co., 2620 W. Flournoy St., Chicago 12, Ill.
Jambor Tool & Stamping Co., 3057 N. 30th St., Milwaukee, Wis. "Bull Dog."
King Quality Products Co., 2320 Marconi St., St. Louis 10, Mo.
McQuay-Norris Mfg. Co., 2320 Marconi St., St. Louis, Mo.
Machine Products Co., 1235 Washington Blvd., Pittsburgh 6, Pa.
Marquette Metal Products Co., 1145 Galewood Drive, Cleveland 10, Ohio.
Monmouth Products Co., 6545 Carnegie Ave., Cleveland 3, Ohio.
National Formetal Co., 6536 Metta Ave., Cleveland 14, Ohio. "Formetal."
Precision Parts Co., Div. Economy Baler Co., 1200 N. Main St., Ann Arbor, Mich.
Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio.
Wagner Mfg. Co., E. R., 4611 N. 32nd St., Milwaukee 9, Wis.
Western Automatic Machine Screw Co., 752 Lake Ave., Elyria, Ohio.

CABINETS, Accessory and Parts

Angle Steel Stool Co., 56 Oak St., Plainwell, Mich.
Aurora Equipment Co., Prairie St. at Cleveland Ave., Aurora, Ill. "Equipto."
Berger Mfg. Div. Republic Steel Corp., 1038 Belden Ave., N. E., Canton 5, Ohio.
Central Sheet Metal Works, Inc., 2647 Clybourn Ave., Chicago 14, Ill.
Cutler Metal Products Co., 1029 Line St., Camden, N. J.
Frick-Gallagher Mfg. Co., 200 W. Second St., Wellston, Ohio. "FGM."
Gilbert & Barker Mfg. Co., Springfield, Mass. "Calco-Meter," "Gilbarco."
Heller & Co., W. C., 1907 Wabash Ave., Montpelier, Ohio.
Lyon Metal Products, Inc., 2931 Montgomery St., Aurora, Ill.
Penn Metal Corp. of Penna., Oregon Ave. & Swanson St., Philadelphia 48, Pa. "Penco."
Standard Steel Equipment Co., 117-20 14th Rd., College Point, L. I., N. Y. "Stansteel."

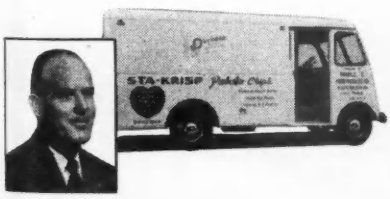
CABLE, Brake Control (With Conduit)

Alloy Mfg. Co., 3207 S. Shields Ave., Chicago 16, Ill. "Quality Built."
American Chain & Cable Co., Automotive & Aircraft Div., 6-235 General Motors Bldg., Detroit 2, Mich. "Tru-Lay." (Using "Tru-Loc" fittings.)
Bendix Produucts Div., Bendix Aviation Corp., 401 Bendix Drive, South Bend 20, Ind.
Eis Automotive Corp., Middletown, Conn.
Freedco Products, Inc., 154 Nassau St., New York, N. Y.
Gwilliam Co., 360 Furman St., Brooklyn 2, N. Y. "Rowden."
Supco Products Corp., S. Bayview Ave., Amityville, L. I., N. Y.
United Parts Mfg. Co., 1250 W. Van Buren St., Chicago, Ill. (For Steeldraulic, Bendix and Huck brakes.)

CABLE, Ignition, Starting and Lighting
(In bulk, length on spools, rolls, etc.)

Anaconda Wire & Cable Co., 25 Broadway, New York 4, N. Y.
Andrews Mfg. Co., 924 S. Thersea Ave., St. Louis 3, Mo.
Belden Mfg. Co., 4647 W. Van Buren St., Chicago 44, Ill.
Clark Cable Corp., 11201 Berea Md., Cleveland 2, Ohio.
Crescent Co., Pawtucket, R. I. "Wiry Joe."
Electric Auto-Lite Co., Toledo, Ohio. "Auto-Lite."
Electric Auto-Lite Co., Wire & Cable Div., 3529 24th St., Port Huron, Mich. "Auto-Lite."
Essex Wire Corp., 1601 Wall St., Fort Wayne, Ind. "SX."
Freedco Products, Inc., 154 Nassau St., New York, N. Y.
General Cable Corp., 420 Lexington Ave., New York 17, N. Y.
General Electric Co., Appl. & Mdse. Dept., Bridgeport, Conn. (Ignition.)
Gilmer Co., L. H., Div. of United States Rubber Co., Cottman & Keystone Sts., Philadelphia 35, Pa.
Habirshaw Cable & Wire Div. of Dodge Copper Products Corp., 40 [illegible]st., New York, N. Y.
Kathanode Corp., 1st National Bank Bldg., St. Paul 1, Minn.
Kerite Co., 30 Church St., New York 7, N. Y. (Ignition.)
Lenhart Mfg. Co., Hamburg, Pa.
Manhattan Coil Corp., 1486 Lakewood Ave., S.E., Atlanta 1, Ga.
Monarch Insulated Wire Co., 491 Broadway, New York 12, N. Y.
Murray Auto Specialty Co., 1228 S. Olive St., Los Angeles 15, Cal. "Masco."
Ohio Parts Co., Theresa St. & Chonteau Ave., St. Louis 3, Mo.
Packard Electric Div., General Motors Corp., Warren, Ohio.
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
Royal Electric Co., 95 Grand Ave., Pawtucket, R. I.
Scintilla Magneto Div., Bendix Aviation Corp., Sherman Ave., Sidney, N. Y. "Bendix-Scintilla." (For buses.)
Simplex Wire & Cable Co., 79 Sidney St., Cambridge 39, Mass. (Ignition.)

The Men Who Know Truck Bodies Manufacture with Lindsay Structure



In Kansas City—
Ask W. E. Turner, American Body & Equipment Co., Kansas City, Missouri, a leading body manufacturer who specializes in the use of Lindsay Structure for truck bodies.

Anywhere in the U. S.—Ask the Progressive Builders

You can be sure to find near you a body builder who uses Lindsay Structure. There are over 200 qualified body builders who are specialists in the use of Lindsay Structure for truck bodies.

Large or small—a package delivery body or a trailer—here is a versatile, wonder material that enables your body manufacturer to tailor your truck body exactly to your needs—by mass production methods.

LS "Functional Skin" construction means panels of light sheet metal that are both skin and structure. It means amazing strength and durability. It means easy accessibility from the outside for fast, low-cost repairs.

A further advantage is provided in Lindsay Structure. A great network—leading manufacturers in all parts of the country are authorized LS Builders. They give immediate, courteous, local service, fast repairs—anywhere.

Specify Lindsay Structure for your next truck bodies. This investment in low-cost transportation pays dividends for years and years. Write for name of your nearest body manufacturer who uses LS.

LINDSAY LS STRUCTURE

Lindsay Structure, Inc.
5000 West Dempster St., Skokie, Illinois

U. S. Patents 2017629, 2263510, 2263511
U. S. and Foreign Patents and Patents Pending

1450-1

ENGINEERED TO FIT ALL AUTOMOTIVE

Correct Lubrication

with Delvac "900 Series" Oils helps fleet operators extend overhaul periods—reduce "down-time" in shop—lower overall operating expense.

DIESEL AND CARBURETOR-TYPE ENGINES

DELVAC OILS

PROVED

Performance Under Toughest Conditions!

APPROVED

By 45 Bus-Truck Builders... 28 Stock Engine Builders!

MORE AND MORE fleet operators report that Delvac "900 Series" Oils help keep maintenance and repair costs down, engine performance up.

They're famous *heavy-duty* oils—give full engine protection throughout the entire operating range . . . possess rich lubricating films that provide full piston ring seal, minimize blowby, reduce friction.

Delvac "900 Series" Oils combine exceptional oxidation resistance with special detergent properties to help keep engines clean. Contaminants remain in suspension, are easily removed by periodic crankcase draining. High resistance to chemical change protects hard alloy bearings against corrosion.

Cut mileage costs now! Specify Delvac "900 Series" Oils!

"160,000 Miles with Delvac"

Weekly truck mileage of one large fleet operator totals 26,000 miles at ungoverned speeds. Rigid lubrication and inspection are maintained each 2000 miles. Bearing (above) was photographed after 160,000 miles of service on Delvac Oil... unusually long life possible with *Correct Lubrication!*

SOCONY-VACUUM OIL CO., INC., and Affiliates:
MAGNOLIA PETROLEUM CO., GENERAL PETROLEUM CORP.

1188-2

CABLE, Ignition, Starting and Lighting —cont.

Sorenson Mfg. Co., P., 32-31 57th St., Woodside, N. Y.
Standard Motor Products, Inc., 3718 Northern Blvd., Long Island City, L. I., N. Y. "Blue Streak," "Standard."
Thompson-Neaylon Mfg. Co., 3545 S. Morgan St., Chicago 9, Ill. "T-N."
Triple-A-Specialty Co., 2101 Walnut St., Chicago 12, Ill. "Triaco."
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y. "Laytex."
Walker Bros., Conshohocken, Pa. "Walker of Conshohocken."
Whitaker Cable Corp., 1301 Burlington Ave., North Kansas City 16, Mo.
White, Inc., J. M., 11th & Cambria Sts., Philadelphia 33, Pa.
Willard Storage Battery Co., 246 E. 131st St., Cleveland, Ohio.

CABLES, Storage Battery

(Complete with terminals)

Andrews Mfg. Co., 924 S. Thersea Ave., St. Louis 3, Mo.
Belden Mfg. Co., 4647 W. Van Buren St., Chicago 44, Ill.
Bowers Battery & Spark Plug Co., Reading, Pa.
Bowes "Seal Fast" Corp., 228 N. Pine St., Indianapolis 7, Ind.
Clark Cable Corp., 11201 Berea Rd., Cleveland 2, Ohio. (Ignition.)
Crescent Co., 75 Eagle St., Pawtucket, R. I. "Wiry Joe."
Electric Auto-Lite Co., Merchandising Div., Toledo, Ohio. "Auto-Lite."
Electric Auto-Lite Co., Wire & Cable Div., 3529 24th St., Port Huron, Mich. "Auto-Lite."
Essex Wire Corp., 1601 Wall St., Fort Wayne, Ind. "SX."
Freedco Products, Inc., 154 Nassau St., New York, N. Y.
General Cable Corp., 420 Lexington Ave., New York 17, N. Y.
Gilmer Co., L. H., Div. of United States Rubber Co., Cottman & Keystone Sts., Philadelphia 35, Pa.
Gould Storage Battery Co., Trenton, N. J.
Jordan Electrical Mfg. Co., 222 N. Second St., Minneapolis 1, Minn.
Manhattan Coil Corp., 1486 Lakewood Ave., S.E., Atlanta 1, Ga.
Monarch Insulated Wire Co., 491 Broadway, New York 12, N. Y.
Murray Auto Specialty Co., 1228 S. Olive St., Los Angeles 15, Calif.
Ohio Parts Co., Theresa St. & Chonteau Ave., St. Louis 3, Mo.
Packard Electric Div., General Motors Corp., Warren, Ohio.
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
Sorensen Mfg. Co., P., 32-31 57th St., Woodside, N. Y.
Standard Motor Products, Inc., 3718 Northern Blvd., Long Island City, L. I., N. Y. "Blue Streak," "Standard."
Thompson-Neaylon Mfg. Co., 3545 S. Morgan St., Chicago 9, Ill. "T-N."
Triple-A-Specialty Co., 2101 Walnut St., Chicago 12, Ill. "Triaple."
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y. "Laytex."
Walker Bros., Conshohocken, Pa. "Walker of Conshohocken."
Whitaker Cable Corp., 1301 Burlington Ave., North Kansas City 16, Mo.
White, Inc., J. M., 11th & Cambria Sts., Philadelphia 33, Pa.
Willard Storage Battery Co., 246 E. 131st St., Cleveland, Ohio.

CABLES, Welding

(See also Hose, Welding)

Belden Mfg. Co., 4647 W. Van Buren St., Chicago 44, Ill.
Burdett Oxygen Co. of Cleveland, Inc., 3300 Lakeside Ave., Cleveland 14, Ohio. "Burdox."
Crescent Co., Pawtucket, R. I.
Habirshaw Cable & Wire Div. Phelps Dodge Copper Products Corp., 40 Wall St., New York, N. Y.
Lincoln Electric Co., Coit Rd. & Kirby Ave., Cleveland 1, Ohio. "Stable-Arc."
National Cylinder Gas Co., 840 N. Michigan Ave., Chicago 11, Ill. "NCG."
Roebling's Sons Co., John A., 640 S. Broad St., Trenton, N. J.

CALIPERS and DIVIDERS

Ames Co., B. C., 12 Ames St., Waltham 54, Mass. (Calipers.)
Brown & Sharpe Mfg. Co., 235 Promenade St., Providence, R. I.
Davis Boring Tool Div. of Giddings & Lewis Machine Tool Co., 142 Doty St., Fond du Lac, Wis. (Micrometer calipers.)
DoAll Co., 254 N. Laurel Ave., Des Moines, Iowa.
Keystone Reamer & Tool Co., Millersburg, Pa.
Lufkin Rule Co., Hess Ave., Saginaw, Mich.
Millers Falls Co., Greenfield, Mass.
Peck, Stow & Wilcox Co., 217 Center St., Southington, Conn. "Pexto."
Rovtar Tool-Die Mfg. Co., 2230 S. Wood St., Chicago 8, Ill.
Starrett Co., L. S., 1 Crescent St., Athol, Mass.
T & H Mfg. Co., 811 E. 31st St., Kansas City 3, Mo. (Calipers.)
Union Tool Co., 48 E. River St., Orange, Mass.
Vard, Inc., 2981 E. Colorado St., Pasadena 8, Calif. (Calipers.)
Woodworth Specialties Corp., 239 Water St., Binghamton, N. Y. (Inside calipers.)

CANS, Gasoline

Balcrank, Inc., Disney St. nr. Marburg, Cincinnati, Ohio. "Brookins."
Columbian Steel Tank Co., 1409 W. 12th St., Kansas City 7, Mo.
Davisbilt Products Co., 110 Richmond St., Cincinnati 3, Ohio.
Diener Mfg. Co., Geo. W., 400 Monticello Ave., Chicago, Ill. "Protection."
Dover Stamping Co., 80 Federal St., Boston, Mass.
Eagle Mfg. Co., Wellsburg, W. Va. "Eagle," "Two-In-One."
General Detroit Corp., 2272 E. Jefferson St., Detroit 7, Mich. "Safeguard."
Huffman Mfg. Co., Davis & Gilbert Aves., Dayton 1, Ohio.
Justrite Mfg. Co., 2061 N. Southport Ave., Chicago 14, Ill.
National Enameling & Stamping Co., 270 N. 12th St., Milwaukee 1, Wis. "Nesco."
New Delphos Mfg. Co., 100 S. Pierce St., Delphos, Ohio.
Progress Mfg. Co., Oil Equipment Div., Arthur, Ill.
United States Steel Products Co., Boyle Mfg. Div., 5100 Santa Fe Ave., Los Angeles 11, Calif. "Boyco."
Wittie Mfg. Co., 1414 S. Wabash Ave., Chicago, Ill.

CANS, Oiling

Balcrank, Inc., Disney St. near Marburg, Cincinnati, Ohio.
Dover Stamping Co., 80 Federal St., Boston, Mass. "Flexo."
Dutton-Lainson Co., Mfg. Div., Hastings, Neb. "Golden Rod."
Eagle Mfg. Co., Wellsburg, W. Va.
Lidseen, Inc., Gustave, 832 S. Central Ave., Chicago, Ill. "G. L.," "Lidseen."
Marvin Mfg. Co., W. B., W. Court St., Urbana, Ohio.
National Enameling & Stamping Co., 270 N. 12th St., Milwaukee 1, Wis. "Nesco."
Noera Mfg. Co., Div. of Chase Brass & Copper Co., 236 Grand St., Waterbury 91, Conn.
Wall Mfg. Supply Co., P., P. O. Box 71, Grove City, Pa. "Superior."

CANS, Radiator Filling

Balcrank, Inc., Disney St. nr. Marburg, Cincinnati, Ohio. "Brookins."
Dover Stamping Co., 80 Federal St., Boston, Mass.
Lawson Co., F. H., Evans & Whateley Sts., Cincinnati, Ohio.
National Enameling & Stamping Co., 270 N. 12th St., Milwaukee 1, Wis. "Nesco."
New Delphos Mfg. Co., 100 S. Pierce St., Delphos, Ohio.
United States Steel Products Co., Boyle Mfg. Div., 5100 Santa Fe Ave., Los Angeles 11, Calif. "Boyco."

CANVAS, See Fabric, Coated Cloth, also Tarpaulins

CAPS, Gasoline Tank (Locking)

American Automatic Devices Co., 500 S. Throop St., Chicago 7, Ill. "King Bee."
Badger Tool & Mfg. Co., 1501 W. Polk St., Chicago, Ill.
Ivano, Inc., 123 E. 21st St., Chicago 16, Ill.
Knight-Morley Corp., 508 Garfield Bldg., 4612 Woodward Ave., Detroit 1, Mich.
Monarch Tool & Machinery Co., 3435 S. Racine Ave., Chicago 8, Ill.
Norlipp Co., 5925 S. Lowe Ave., Chicago 21, Ill.
Quinplex Corp., 429 Fourth Ave., Pittsburgh 19, Pa.
Shaw Co., Joseph, 6225 Benore Rd., Toledo 12, Ohio.
Snap-Up Gas Cap Co., 2528 Greenup Ave., Ashland, Ky. (Electrically controlled.)
Stant Mfg. Co., 1620 Columbia St., Connersville, Ind. "Dual-Loc."
Wheel Parts & Mfg. Co., 352 Fourth Ave., New York 10, N. Y. "National."
Wise Lock Co., 2730 Grand Ave., S. E., Cleveland 4, Ohio.

CAPS, Tire Valve

Acme Air Appliance Co., 100 Hinsdale St., Brooklyn 7, N. Y.
Bowes "Seal Fast" Corp., 228 N. Pine St., Indianapolis 7, Ind.
Bridgeport Brass Co., 30 Grand St., Bridgeport 2, Conn.
Dill Mfg. Co., 700 E. 82d St., Cleveland 5, Ohio.
Emvir Mfg. Co., 1705 Lincoln St., Evanston, Ill. "Autocap." (Automatic.)
G. M. Co Mfg. Co., 43-10 21st St., Long Island City, L. I., N. Y.
Hill Nut Co., 2620 W. Flournoy St., Chicago 12, Ill.
Kirspel Industries, Inc., 300 Main St., Orange, N. J.
Monarch Insulated Wire Co., 491 Broadway, New York 12, N. Y.
Perfection Automotive Products Corp., 925 W. Elizabeth St., Detroit 1, Mich. (Plastic.)
Planet Metal Products Corp., 964 Dean St., Brooklyn 16, N. Y.
Schrader's Son, Div. of Scovill Mfg. Co., A., 470 Vanderbilt Ave., Brooklyn 17, N. Y.
Speaker Corp., J. W., 3059 N. Weil St., Milwaukee 12, Wis.
Victor Instrument Mfg. Co., 33 W. 60th St., New York 23, N. Y.

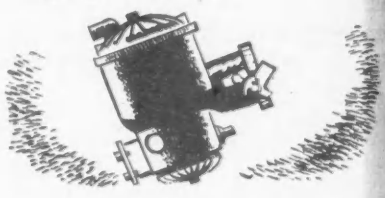
CARBON MONOXIDE REMOVING SYSTEMS, See Exhaust Gas Removing Systems

CARBURETORS, Butane

American Liquid Gas Corp., 1109 Santa Fe Ave., Los Angeles 21, Calif. "Algas."
Century Gas Equipment Co., 11188 Long Beach Blvd., Lynwood, Calif. (Also natural gas.)
Roadmaster Products Co., 3350 San Francisco Rd., Los Angeles, Calif.

CARBURETORS, Gasoline

Bendix Products Div., Bendix Aviation Corp., 401 Bendix Drive, South Bend 20, Ind. "Stromberg" (Aircraft and automotive for replacement sales.)
Carter Carburetor Corp., 2840 N. Spring Ave., St. Louis 7, Mo. (Automatic and manual choke.)
Eclipse Machine Div., Bendix Aviation Corp., Elmira, N. Y. "Stromberg." (For equipment sales.)
Holley Carburetor Co., 5930 Vancouver Ave., Detroit 4, Mich.



Marvel-Schebler Carburetor Div., Borg-Warner Corp., 1910 St. John St., Flint, Mich. "Marvel," "Rayfield," "Schebler," "Johnson."
Rochester Products Div., General Motors Corp., 1000 Lexington Ave., Rochester 3, N. Y.
Tillotson Mfg. Co., Wolcott Blvd. & Michigan Central Tracks, Toledo, Ohio.
Zenith Carburetor Div. of Bendix Aviation Corp., 696 Hart Ave., Detroit 14, Mich. "Zenith." (Also "Zenith Gov-U-Retor." Combination carburetor and governor.)

CARBURETORS, Parts

Alloy Mfg. Co., 3207 S. Shields Ave., Chicago 16, Ill. "Quality Built."
Hygrade Products Div., Standard Motor Products, Inc., 35-35 35th St., Long Island City, N. Y.
International Spare Parts Co., 5-01 56th Rd., Long Island City 1, N. Y.
National Machine Works, Inc., 2414 S. Robinson Ave., Oklahoma City 9, Okla.
Parts Mfg. Co., 311 W. 66th St., New York 23, N. Y. "Parco."
Precision Automotive Components Co., 1312 S. Grand Blvd., St. Louis 4, Mo. "Pacco."
Simmons Mfg. Co., Ashland, Ohio.
Sorenson Mfg. Co., P., 32-31 57th St., Woodside, N. Y.

CARRIERS, Storage Battery

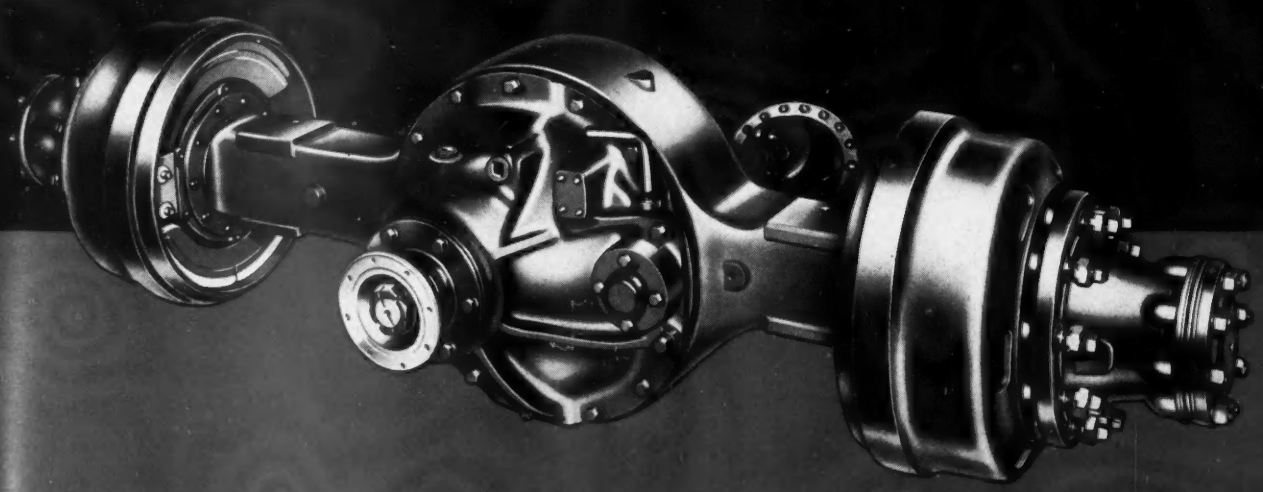
Acorn Mfg. Co., 33rd & Reed Sts., Erie, Pa. "Amco."

EATON
2-Speed Truck
AXLES

Reduce Maintenance Costs—
Make Trucks Last Longer

The exclusive features of Eaton 2-Speed Truck Axles assure extra service with freedom from repairs. *Only Eaton* Axles provide planetary gearing, which minimizes stress and wear because gear speeds are slower and gear loads are distributed over a number of teeth. *Only Eaton* Axles provide forced-flow oiling, which reduces friction because lubrication begins the instant the axle turns over. *Only Eaton* Axles provide a housing designed for abnormal service. *Only Eaton* Axles provide driving gears engineered for maximum durability. Ask your truck dealer to show you how Eaton Axles make available exactly the right gear ratio for every condition of road and load.

More Than a Million Eaton 2-Speed Axles in Trucks Today



Axle Division
EATON MANUFACTURING COMPANY
CLEVELAND, OHIO

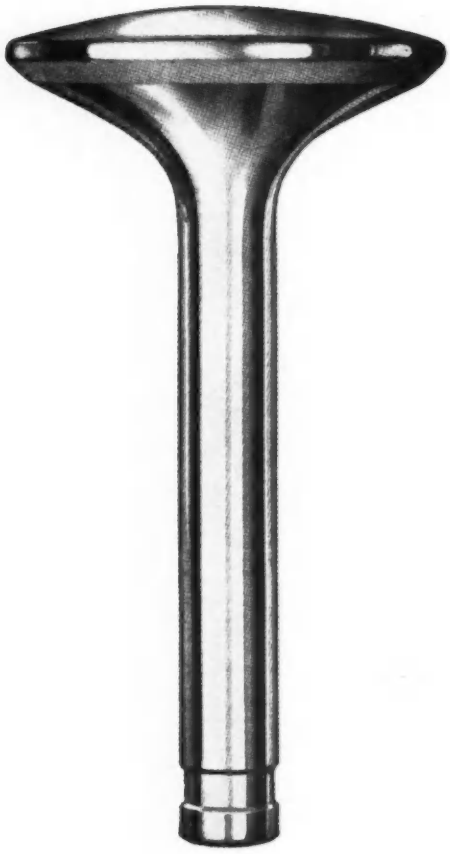
PRODUCTS: SODIUM COOLED, POPPET, AND FREE VALVES • TAPPETS • HYDRAULIC VALVE LIFTERS • VALVE SEAT INSERTS • ROTOR PUMPS • MOTOR TRUCK AXLES • PERMANENT MOLD GRAY IRON CASTINGS • HEATER-DEFROSTER UNITS • SNAP RINGS • SPRINGTITES SPRING WASHERS • COLD DRAWN STEEL • STAMPINGS • LEAF AND COIL SPRINGS • DYNAMATIC DRIVES, BRAKES, DYNAMOMETERS

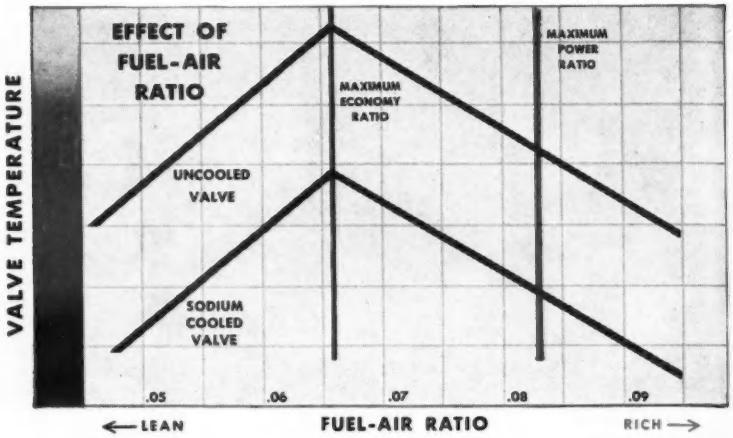
SP24-1

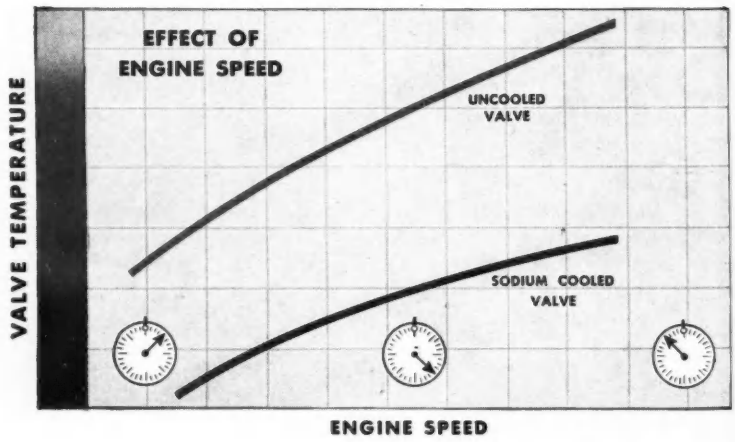
Why Sodium Cooled Valves?

The trend of modern engines is to operate at higher speed and more economical fuel-air ratio. In considering factors which influence exhaust valve life, temperature is the dominant one. High temperatures sharply reduce the resistance to corrosion, distortion, and fatigue life of the finest alloy steel. The effectiveness of sodium cooling in reducing valve temperatures is shown by the curves below, which are typical of recorded test data.

The curve "Effect of Fuel-Air Ratio" shows that as the mixture is leaned out to obtain maximum economy, valve temperatures rise. The curve showing "Effect of Engine Speed" indicates that temperature rises quite rapidly as speed increases.







EATON
MANUFACTURING COMPANY
General Offices: CLEVELAND, OHIO

Eaton engineers will welcome an opportunity to discuss the application of Eaton sodium cooled valves to engines proposed or now in design.

VALVE DIVISION • 9771 FRENCH ROAD • DETROIT 13, MICHIGAN

PRODUCTS: SODIUM COOLED, POPPET, AND FREE VALVES • TAPPETS • HYDRAULIC VALVE LIFTERS • VALVE SEAT INSERTS • ROTOR PUMPS • MOTOR TRUCK AXLES • PERMANENT GRAY IRON CASTINGS • HEATER-DEFROSTER UNITS • SNAP RINGS • SPRINGTITES SPRING WASHERS • COLD DRAWN STEEL • STAMPINGS • LEAF AND COIL SPRINGS • DYNAMATIC DRIVES, BRAKES, DYNAMOMETERS

1840-1

CARRIERS, Storage Battery—cont.

Berkson Products, Inc., 3317 W. Newport Ave., Chicago 18, Ill.
Bishman Mfg. Co., Osseo, Minn.
Valvan Machine Products, Inc., 809 S. Water St., Jackson, Mich.
Central Equipment Co., 1020 W. Adams St., Chicago 7, Ill. "Economy," "Safety," "Victory."
Duro Metal Parts Co., 2649 N. Kildare Ave., Chicago 39, Ill.
Houser Engng. & Mfg. Co., Bluffton, Ind.
Kreger Mfg. Co., L. F., 540 W. 36th St., Chicago 16, Ill. "Safe-Tee Grip."
Loock & Co., R. J., 843 N. Gay St., Baltimore, Md. "Lightnin."
Majestic Handle Co., 2515 S. Wabash Ave., Chicago, Ill. (Sole distributors, Leterstone Sales Co., 2515 S. Wabash Ave., Chicago, Ill.)
Master Signal Co., 2645 W. Grand River Ave., Howell, Mich.
Mueller Electric Co., 1583 E. 31st St., Cleveland 14, Ohio. "Cock-Eyed."
Murray Corp., Towson 4, Md.
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
New Britain Machine Co., 140 Chestnut St., New Britain, Conn.
Powercraft Corp., 2502 S. Wabash Ave., Chicago, Ill. "Powerflo." (Sole distributors, Leterstone Sales Co., 2515 S. Wabash Ave., Chicago, Ill.)
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
Safety Grip Mfg. Co., 620 N. Pine St., Bethlehem, Pa.
Schartow Iron Products Co., 16th St. & Junction Ave., Racine, Wis. "Sipco."
Speaker Corp., J. W., 3059 N. Weil St., Milwaukee 12, Wis.
Thompson-Neaylon Mfg. Co., 3535 S. Morgan St., Chicago 9, Ill. "T-N."
Triple-A-Specialty Co., 2101 Walnut St., Chicago 12, Ill. "Hold-tite."
Victor Instrument Mfg. Co., 33 W. 60th St., New York 23, N. Y.
Wilde Drop Forge & Tool Co., 2936 Fairmount Ave., Kansas City, Mo.
Zoerman-Clark Mfg. Co., Jackson, Mich.

CARRIERS, Tire

Clark Bros. Mfg. Co., 144 W. Lake Ave., Watsonville, Calif. (For trucks, buses and trailers.)
Crosby Co., 183 Pratt St., Buffalo, N. Y.
Extendo Corp., 4950 Melrose Ave., Los Angeles 27, Calif. (Automatic, for trucks.)
Nash Bros. Co., Dewey Ave. & Payne St., Evanston, Ill. (For trucks and trailers.)
Powell Pressed Steel Co., Hubbard, Ohio.

CEMENT, Brake Lining

Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo.
Gatke Corp., 228 N. La Salle St., Chicago 1, Ill.
Grey Rock Div. of Raybestos-Manhattan, Inc., Manheim, Pa.
Miley Co., L. J., 18 S. Sangamon St., Chicago 7, Ill.
Raybestos Div. of Raybestos-Manhattan, Inc., Stratford, Conn.
Rex-Hide Brake Lining Co., 67 Glenwood Pl., East Orange, N. J.

CEMENT, Cast Iron

(For repairing cracks in castings)

All-State Welding Alloys Co., 96 W. Post Rd., White Plains, N. Y. "Karseal."
Bell Co., 411 N. Wolcott St., Chicago 22, Ill. "Bell's," "Flare."
Blue Seal Metals Co., Onamis, Minn.
4-A Products Mfg. Co., Littleton, Colo. "Mendall Metal."
Obermayer Co., S., 2563 W. 18th St., Chicago 8, Ill. "Esso."
Sauereizen Cements Co., Sharpsburg Station, Pittsburgh 15, Pa.
Smooth-On Mfg. Co., 572 Communipaw Ave., Jersey City, N. J.
Stevens, Inc., Frederic B., 1800 18th St., Detroit 16, Mich.
U. S. Chemical & Supply Co., 1424 McGee St., Kansas City 6, Mo. "Z-4."
Watts-Wagner Co., 113 Frelinghuysen Ave., Newark 5, N. J. "Krak Mend."
Western Kelli-Metal Co., 1140 E. Ellsworth St., Denver 9, Colo. "Kelli-Metal."

CEMENT, Rubber (Liquid)

Baldwin Rubber Co., 366 S. Boulevard, E., Pontiac, Mich.
Bell Co., 411 N. Wolcott Ave., Chicago 22, Ill. "Bell's," "Flare."
Buckeye Reliner Producing Co., 637 N. Jackson St., Lima, Ohio. "Welltried."
Dolphin Paint & Varnish Co., 922 Locust St., Toledo 3, Ohio. "Dolfinite."
Durkee-Atwood Co., 215 Seventh St., N. E., Minneapolis 13, Minn.
Fidelity Mfg. Co., Front & Bridge Sts., Catasauqua, Pa. "Alrite," "Fidelity."
Firestone Tire & Rubber Co., S. Main St., Akron, Ohio.
Foster & Kester Co., Reading North Broad Street Station Bldg., Philadelphia 32, Pa. "Sealzit."
Goodrich Co., B. F., 500 S. Main St., Akron, Ohio.
Goodyear Tire & Rubber Co., E. Market St., Akron, Ohio.
Gross Mfg. Co., 1711 California St., Monrovia, Calif.
Hollingshead Corp., R. M., 840 Cooper St., Camden, N. J.
Las-Stik Mfg. Co., Wayne & B Sts., Hamilton, Ohio.
Miller Rubber Co., Div. of B. F. Goodrich Co., 500 S. Main St., Akron, Ohio.
Moore & Co., Samuel, Mantua, Ohio. "Rub-Rub."
Porter Mfg. & Supply Co., 2500 W. Sixth St. Bldg., Room 301, Los Angeles 5, Calif. "Porter," "Gasgacinch." (Snythetic.)
St. Clair Rubber Co., 440 Jefferson Ave., E., Detroit, Mich. "Clair-Bond."
So-Lo Works, Inc., Loveland, Ohio.
Stay-Tite Products Co., 3107 Detroit Ave., Cleveland, Ohio. "Stay-Tite XXX."
Sure-Rite Products Corp., 2731 N. Sixth St., Philadelphia 33, Pa.
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.
Van Cleef Bros., Inc., Woodlawn Ave., 77th to 78th Sts., Chicago 19, Ill. "Dutch Brand."

CHAINS, Timing

Baldwin-Duckworth, Div. of Chain Belt Co., 373 Plainfield St., Springfield 2, Mass.
D & B Mfg. Co., 2329 Michigan Blvd., Chicago, Ill.
Detroit Bevel Gear Co., 8130 Jos. Campau Ave., Detroit 11, Mich.
Diamond Chain Co., 402 Kentucky Ave., Indianapolis 7, Ind.
Hoof Products Co., 6543 S. Laramie Ave., Chicago 38, Ill.
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio. (Sole distributors to replacement trade, Lempco Automotive, Inc., 2953 E. 55th St., Cleveland 4, Ohio.)
Link-Belt Co., 307 N. Michigan Ave., Chicago 1, Ill. "Silverstreak."
Morse Chain Co. (Div. Borg-Warner Corp.), 7601 Central Ave., Detroit 8, Mich.
Perfection Gear Co., 152nd St. & Vincennes Ave., Harvey, Ill.
Ramsey Chain Co., Troy Rd., Albany, N. Y.
Union Chain & Mfg. Co., Sandusky, Ohio. "American."
Whitney Chain & Mfg. Co., 237 Hamilton St., Hartford 2, Conn.

CHAINS, Tire

American Chain Div. of American Chain & Cable Co., 929 Connecticut Ave., Bridgeport, Conn. "Weed," "Weed American."
Bridgeport Chain & Mfg. Co., 1201 Crescent Ave., Bridgeport, Conn.
Campbell Chain Co., York, Pa. "Campbell," "Lug-Reinforced."
Cleveland Chain & Mfg. Co., Penna. R. R. & Henry St., Cleveland 5, Ohio. "Cleveland-Sterling Wearwell," "Master Grip."
Columbus-McKinnon Chain Corp., Tonawanda, N. Y. "Claw."
Flower City Specialty Co., Rochester, N. Y. (Repair links.)
Hite Mfg. Co., 100 Market St., Chattanooga 2, Tenn.
Hodell Chain Co. Div. of National Screw & Mfg. Co., 3924 Cooper Ave., Cleveland 3, Ohio.
Lloyd Chain Mfg. Co., Fifth & Market Sts., Marysville, Mo.
McKay Co., 1005 Liberty Ave., Pittsburgh, Pa. "McKay," "Multigrip." (Steel.)
Nixdorf-Krein Mfg. Co., 916 Howard St., St. Louis 6, Mo. "Elephant Brand."
Peerless Chain Co., Front & Walnut Sts., Winona, Minn. "Peerless," "Superior," "Kwick-On," "Gumbo."
St. Pierre Chain Corp., Frank St., Worcester, Mass.
Taylor Chain Co., S. G., P. O. Box 509-C, Hammond, Ind. "Taylor-Made," "Tayco."
Western Chain Co., 1807 Belmont Ave., Chicago 13, Ill. "Wesco."
Woodhouse Chain Works, Third St., Trenton 10, N. J.
Woodworth Specialties Corp., 239 Water St., Binghamton, N. Y.

CHAINS, ADJUSTERS, See Adjusters, Chain

CHARGERS, Battery

Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13F, Mich. "Unitron."
Baldor Electric Co., 4351 Duncan Ave., St. Louis 10, Mo. "Handy."
Blitz Electric Co., 5713 Wentworth Ave., Chicago, Ill.
Electric Heat Control Co., 9115 Inman Ave., Cleveland 5, Ohio. "King."
Lansteel Metallurgical Corp., 2200 Sheridan Rd., North Chicago, Ill.
General Electric Co., Appl. & Mdse. Dept., Bridgeport, Conn. "Tungar."
Good-All Electric Mfg. Co., 112 W. First St., Ogallala, Neb.
Jordan Electrical Mfg. Co., 222 N. Second St., Minneapolis 1, Minn.
Kathanode Corp., 1201 First National Bank Bldg., St. Paul, Minn.
Lanagan & Hoke, 431 E. Collom St., Philadelphia 44, Pa.
McColpin-Christie Corp., 4922 S. Figueroa St., Los Angeles 37, Calif. "C. & C."
Motor Generator Corp., The Hobart Bros. Co., Hobart Square, Troy, N. Y.
Richardson-Allen Corp., 15 W. 20th St., New York 11, Calif.
Schauer Mfg. Corp., 2060 Reading Rd., Cincinnati 2, Ohio. "Electrox."
Triple-A-Specialty Co., 2101 Walnut St., Chicago 12, Ill. "Silver Beauty."
Westinghouse Electric Corp., 306 Fourth Ave., Pittsburgh 30, Pa. "Rectox." (Copper oxide.)
Willard Storage Battery Co., 246 E. 131st St., Cleveland, Ohio.
Wilson, K. R., 215 Main St., Buffalo 3, N. Y.

CHARGERS, Battery (Fast)

Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13F, Mich.
Associated Equipment Co., 5147 Natural Bridge Ave., St. Louis 15, Mo. "Hartman."
Baldor Electric Co., 4351 Duncan Ave., St. Louis 10, Mo.
Berg-Gibson Mfg. Co., 817 E. 17th St., Kansas City 8, Mo. "B & G."
Blitz Electric Co., 5713 Wentworth Ave., Chicago, Ill.
Bowers Battery & Spark Plug Co., Reading, Pa.
Bowser Inc., 1302 E. Creighton Ave., Ft. Wayne 5, Ind.
Electric Heat Control Co., 9115 Inman Ave., Cleveland 5, Ohio. "King."
Fox Products Co., 4720 N. 18th St., Philadelphia 41, Pa.
General Electric Co., Appl. & Mdse. Dept., Bridgeport, Conn. "G. E."
Good-All Electric Mfg. Co., 112 W. First St., Ogallala, Neb.
Gould Storage Battery Corp., First National Bank Bldg., St. Paul 1, Minn.
H & H Products Mfg. Co., 306 Boyd St., Los Angeles 13, Calif.
Hammett Electric Mfg. Co., 706 E. 18th St., Kansas City 8, Mo.
Hartman Corp. of America, 5147 Natural Bridge Ave., St. Louis 15, Mo.
Jordan Electrical Mfg. Co., 222 N. Second St., Minneapolis 1, Minn. "Nu-Way."
Kathanode Corp., 1201 First National Bank Bldg., St. Paul, Minn.
Lanagan & Hoke, 431 E. Collom St., Philadelphia 44, Pa.
McColpin-Christie Corp., 4922 S. Figueroa St., Los Angeles 37, Calif. "C & C Charg-A-Lyzer."
Marquette Mfg. Co., 307 E. Hennepin Ave., Minneapolis 14, Minn.
Mercury Battery Charger Co., 719 Wyandotte St., Kansas City 6, Mo.
Quick Charge, Inc., 1750 N. E. Tenth St., Oklahoma City, Okla.
Richardson-Allen Corp., 15 W. 20th St., New York 11, N. Y.
Weidenhoff, Inc., Joseph, 4340 W. Roosevelt Rd., Chicago 24, Ill.
Willard Storage Battery Co., 246 E. 131st St., Cleveland, Ohio.
Wilson, K. R., 215 Main St., Buffalo 3, N. Y.

CHUCKS, Air (Tire Inflating)

Acme Air Appliance Co., 100 Hinsdale St., Brooklyn 7, N. Y.
Coronet Parts Mfg. Co., 951 Shepard Ave., Brooklyn 8, N. Y.
Dill Mfg. Co., 700 E. 82nd St., Cleveland 8, Ohio.
Druge Bros. Mfg. Co., 888 92nd Ave., Oakland 3, Calif. "Tru-Flate."
G. M. Co Mfg. Co., 43-10 21st St., Long Island City, L. I., N. Y.
Peters & Russell, Inc., 501 W. Liberty St., Springfield, Ohio. "Par."
Planet Metal Products Corp., 964 Dean St., Brooklyn 16, N. Y.
Romort Mfg. Co., Oakfield, Wis.
Schrader's Son, Div. of Scovill Mfg. Co., A., 470 Vanderbilt Ave., Brooklyn 17, N. Y. "Dubltite."

CHUTES

Alvey Conveyor Mfg. Co., 3201 S. Broadway, St. Louis 18, Mo.
Chain Belt Co., 1733 W. Bruce St., Milwaukee 4, Wis. "Rex."
Gifford-Wood Co., 15 Hill St., Hudson, N. Y.
Haiss Mfg. Co., George, 381 Canal St., New York 51, N. Y.
Hunt Co., C. W., Div. Gifford-Wood Co., Hudson, N. Y.
Kirk & Blum Mfg. Co., 2819 Spring Grove Ave., Cincinnati, Ohio. "K & B."
Koven & Bro., Inc., L. O., 154 Ogden Ave., Jersey City, N. J.
Link-Belt Co., 307 N. Michigan Ave., Chicago 1, Ill.
Mathews Conveyor Co., 102 Tenth St., Elwood City, Pa.
Stephens-Adamson Mfg. Co., 150 Ridgeway St., Aurora, Ill.
Webster Mfg. Co., Tiffin 16, Ohio.

CLAMPS, Battery Hold Down

Berkson Products, Inc., 3317 W. Newport Ave., Chicago 18, Ill.
Bishman Mfg. Co., Osseo, Minn.
Callanan Mfg. Co., 80 Holten St., Danvers, Mass. "Doublex."
Cuyahoga Spring Co., 10230 Berea Rd., Cleveland 2, Ohio.
Kreger Mfg. Co., L. F., 540 W. 35th St., Chicago 16, Ill.
Loock & Co., R. J., 343 N. Gay St., Baltimore, Md. "Lightnin."
Murray Corp., Towson 4, Md.
Safety Grip Mfg. Co., 620 N. Pine St., Bethlehem, Pa.
Schartow Iron Products Co., 16th St. & Junction Ave., Racine, Wis. "Sipco."
Thompson-Neaylon Mfg. Co., 3545 S. Morgan St., Chicago 9, Ill.
Triple-A-Specialty Co., 2101 Walnut St., Chicago 12, Ill.
Wheel Parts & Mfg. Co., 352 Fourth Ave., New York 10, N. Y. "National."
Whitaker Cable Corp., 1301 Burlington Ave., North Kansas City 16, Mo.

CLAMPS, Brake Cylinder (Hydraulic)

Atmars Tool Co., 2411 Chestnut St., Oakland 7, Calif.
Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo.
Curtiss & Smith Mfg. Corp., 22 High St., Pottstown, Pa. "C S."
Eis Automotive Corp., Middletown, Conn.
Master Signal Co., 2465 W. Grand River Ave., Howell, Mich.
Murray Corp., Towson 4, Md.
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
Rinck-McIlwaine, Inc., 16 Hudson St., New York, N. Y. "Rimac."
Supco Products Corp., S. Bayview Ave., Amityville, L. I., N. Y.
Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo.
Wilde Drop Forge & Tool Co., 2936 Fairmount Ave., Kansas City, Mo.
Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K.R.W."

CLAMPS, Brake Lining

Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo.
Cincinnati Tool Co., 1967 Waverly Ave., Cincinnati 12, Ohio. "Hargrave."
Miley Co., L. J., 18 S. Sangamon St., Chicago 7, Ill.
Shepard-Thomason Co., 2023 W. Gage Ave., Los Angeles 44, Cal. "Thomason."

CLAMPS, Hose

Actus Corp., 10-14 N. Bleeker St., Mount Vernon, N. Y. "WrapLock."
Alloy Mfg. Co., 3207 S. Shields Ave., Chicago 16, Ill. "Quality Built."
American Stamping Co., 310 E. Burnham St., Battle Creek, Mich.
Breeze Corps., Inc., Aircraft Standard Parts Div., 41 S. Sixth St., Newark 7, N. J. "Aero-Seal."
Brewer-Titchener Corp., 115 Pt. Watson St., Cortland, N. Y.
Carston Mfg. Co., 431 W. 28th St., New York 1, N. Y.
Central Equipment Co., 1020 W. Adams St., Chicago 7, Ill. "Allsize," "Inner-Seal," "360."
Chicago Pneumatic Tool Co., 6 E. 44th St., New York, N. Y. "CP."
Clancy, Inc., J. R., 1010 W. Belden Ave., Syracuse, N. Y. "Sure-grip."
Corbin Screw Div., American Hardware Corp., 227 High St., New Britain, Conn.
Everhot Products Co., 2001 W. Carroll Ave., Chicago 12, Ill. "Evertite." (Radiator; "Everhot" heater.)
Exola Products, Inc., 2423 E. 57th St., Los Angeles 11, Calif. "King Clamp."
Garrett Co., George K., 1421 Chestnut St., Philadelphia 2, Pa. "Diamond G."
Hansen Mfg. Co., 4031 W. 150th St., Cleveland 11, Ohio.
Hunt & Son, C. B., 1913 E. Pershing St., Salem, Ohio. "Quick as Wink."
Ideal Clamp Mfg. Co., 200 Bradford St., Brooklyn, N. Y. "Fitzall," "Ideal," "Surefit."
Ingersoll-Rand Co., 11 Broadway, New York, N. Y.
Loock & Co., R. J., 343 N. Gay St., Baltimore, Md. "Lightnin."
Marman Products Co., 940 W. Florence Ave., Inglewood, Cal.
Moore & Co., Samuel, Mantua, Ohio. "Rub-Rub."
Mulconroy Co., 54th & Jefferson Sts., Philadelphia, Pa.
Murray Corp., Towson 4, Md. "Wire Grip."
Perfect Parts, Inc., 53 Amsterdam Ave., New York, N. Y.
Rovtar Tool-Die Mfg. Co., 2230 S. Wood St., Chicago 8, Ill.
Schrader's Son, Div. of Scovill Mfg. Co., A., 470 Vanderbilt Ave., Brooklyn 17, N. Y.
Sherman Mfg. Co., H. B., 22 Barney St., Battle Creek, Mich.
Tinnerman Products, Inc., 2038 Fulton Rd., Cleveland 13, Ohio. "Speed Clamps."
Turner Mfg. Co., 404 W. Superior St., Kokomo, Ind.
United Steel & Wire Co., 27 Fonda Ave., Battle Creek, Mich. "Double-Tite."
Universal Industrial Corp., 105 Elm Ave., Hackensack, N. J.
Victor Instrument Mfg. Co., 33 W. 60th St., New York 23, N. Y.
Wickwire Spencer Steel Div. of Colorado Fuel & Iron Corp., 500 Fifth Ave., New York 18, N. Y. (Heater.)
Williams Products Co., H. E., 100 S. Main St., Carthage, Mo.
Willows Mfg. Co., 341 39th St., Brooklyn 32, N. Y. "Evrysize," "Grip-Tite."
Wittek Mfg. Co., 4305 W. 24th Place, Chicago 23, Ill. "Noc-Out," "Star."

CLEANERS, Air, Carburetor

AC Spark Plug Div., 1300 N. Dort Highway, General Motors Corp., Flint 2, Mich.
Air-Maze Corp., 5200 Harvard Ave., Cleveland 5, Ohio.
Bendix-Westinghouse Automotive Air Brake Co., 901 Cleveland Rd., Elyria, Ohio.
Donaldson Co., 666 Pelham Blvd., St. Paul 4, Minn. "Donaldson Oil Washed."
Electric & Carburetor Engrg. Co., 2321 E. Eighth St., Los Angeles 21, Calif. "Tattersfield."
Fram Corp., 55 Pawtucket Ave., East Providence 16, R. I.
Houdaille-Hershey Corp., North Chicago Div., 1900 Foss Park Ave., North Chicago, Ill.
Industrial Wire Cloth Products Corp., Fourth & Brush Sts., Wayne, Mich.
Michiana Products Corp., Sheet Steel Div., Michigan City, Ind.
Red Devil Tools, Coit St., Irvington 11, N. J. (Refills.)
United Specialties Co., United Air Cleaner Div., 9705 Cottage Grove Ave., Chicago 28, Ill. (Oil.)
Vortox Co., 121 S. Alexander Ave., Claremont, Cal. (Oil bath.)

CLEANERS, Air (Crankcase Breather)

AC Spark Plug Div., 1300 N. Dort Highway, General Motors Corp., Flint 2, Mich.
Fram Corp., 55 Pawtucket Ave., East Providence 16, R. I.
Industrial Wire Cloth Products Corp., Fourth & Brush Sts., Wayne, Mich.

CLEANERS, Carburetor (Chemical)

Crystal Soap & Chemical Co., 6300 State Rd., Philadelphia 35, Pa.
Curran Corp., S. Canal St., Lawrence, Mass. "Gunk H-S."
Drew & Co., E. F., 15 E. 26th St., New York, N. Y. "Drew Ameroid."
Excello Mfg. Co., 1107 S. Fremont Ave., Alhambra, Calif. "Xpel-It."
Gerlach Co., E. A., P. O. Box 133, Eddington, Bucks County, Pa. "Soax."
Harley Soap Co., Pierce & Orthodox Sts., Philadelphia 37, Pa. "Harco."
Hollingshead Corp., R. M., 840 Cooper St., Camden, N. J. "Whiz Dip-Zof."
Industrial Chemicaal Products Co., 3769 Bellevue Ave., Detroit 7, Mich. "Industrosolv."
Kleer-Flo Co., 250 W. 57th St., New York 19, N. Y.
Magnus Chemical Co., 185 South Ave., Garwood, N. J.
Oakite Products, Inc., 22 Thames St., New York 6, N. Y.
Pennsylvania Refining Co., Butler Savings & Trust Bldg., Butler, Pa. "Penn Drake Gumont."
Service Supply Co., 1115 Seventh St., Denver 2, Colo. "Solvo."
Turco Products, Inc., 6135 S. Central Ave., Los Angeles 1, Calif.
United States Aviex Co., 1350 Maple St., Niles, Ohio.
V-O Mfg. Co., 13245 Sherman Way, North Hollywood, Calif.

CLEANERS, Chemical—See Solvents, Oil, Carbon & Grease

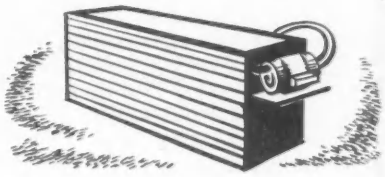
CLEANERS, COOLING SYSTEM—See Flushers, Radiator and Block (Portable)

CLEANERS, Differential and Transmission—See Flushers, Differential and Transmission

CLEANERS, Engine, Chassis and Fender

(Device for cleaning oil and grease from engines, chassis and fenders by gasoline, kerosene, compressed air, or by employing steam and cleaning compounds; see also Washers, Automobile [Systems])

Aeroil Products Co., Wesley St., South Hackensack, N. J.
Bean Div. Food Machinery & Chemical Corp., John, 1305 S. Cedar St., Lansing, Mich. (Steam.)
Clayton Mfg. Co., 1363 Ellis Lane, El Monte, Calif. "Kerrick Kleaner." (Hot vapor spray; also portable steam.)
Curran Corp., Lawrence, Mass. (Cylinder head cleaning kits.)
Eclipse Fuel Engineering Co., 711 S. Main St., Rockford, Ill. "McKee."
Electric Sprayit Co., 14th & Illinois Sts., Sheboygan, Wis. "Spravit."
Ewing Mfg. Co., 2545 N. W. Tenth St., Oklahoma City, Okla. (Steam.)
G. M. Co Mfg. Co., 43-10 21st St., Long Island City, L. I., N. Y.
Grayson Tool Co., Hastings, Neb.
Hansen Mfg. Co., 4031 W. 150th St., Cleveland 11, Ohio.
Homestead Valve Mfg. Co. (Hypressure Jenny Div.), Narrows Run Rd., Coraopolis, Pa. "Hypressure Jenny."
Hydro-Air Cleaning Systems, Inc., 11921 Miles Ave., Cleveland 5, Ohio.



Imperial Brass Mfg. Co., 1234 W. Harrison St., Chicago, Ill.
J. P. Mfg. Co., Youngstown, Ohio.
Malsbary Mfg. Co., 845 92nd Ave., Oakland 3, Calif. (Steam.)
Mercury Battery Charger Co., 719 Wyandotte St., Kansas City 6, Mo. (Steam.)
Oakite Products, Inc., 22 Thames St., New York 6, N. Y. (Steam.)
Practical Products Co., 2632 Nicollet Ave., Minneapolis 8, Minn. "Kleer Flo."
Quick Charge, Inc., 1750 N. E. Tenth St., Oklahoma City 4, Okla. "Quick Steam." (Steam.)
Siebring Mfg. Co., 501 Main St., George, Iowa. (Steam.)
Super Mold Corp., 420 N. Sacramento St., Lodi, Calif. "Lodi." (Steam.)
Tivit Products Co., Box 2917 Terminal Annex, Los Angeles 54, Calif. "Kelite." (Steam.)
Turco Products, Inc., 6135 S. Central Ave., Los Angeles 1, Calif.
White Engineering & Mfg. Co., 70 W. Passaic St., Rochelle Park, N. J.
Wilson, K. R., 215 Main St., Buffalo 3, N. Y.

CLEANERS, Metal

(Compound for cleaning and preparing surfaces for painting; see also Solvents, Oil, Carbon and Grease)

American Chemical Paint Co., Brookside Ave. & Reading R. R., Ambler, Pa. "Deoxidine," "Ridoline," "Trisila."
Anti-Rust Corp., 315 E. 91st St., New York, N. Y. "Rozene."
Bruce Products Corp., Howell, Mich. "Bruko."
Buchanan Chemical Co., C. G., 4640 Baker Rd., Cincinnati 12, Ohio. "Bu-Co."
Bullard Co., Bullard-Dunn Process Div., 286 Canfield Ave., Bridgeport 3, Conn. (Electrochemical.)
Calcine Chemical Co., P. O. Box 61, H. C. Station, Jersey City, N. J. "Calsol."
Carbide & Carbon Chemicals Corp., 30 E. 42nd St., New York 17, N. Y. "Tergitol."

WHEREVER there's a delivery job to do, operators report the outstanding functional advantages of the White 3000 result in more units delivered per day . . . lower delivery cost per unit delivered.

• For greater truck EFFICIENCY . . . ECONOMY

"It's a *dream* of a truck . . . every way you look at it!"

That's the report . . . everywhere! And it's easy to see why the exciting, new White 3000 is the talk of the industry . . . from coast to coast!

OPERATORS LIKE IT because the functional design pays off in dollars and cents. Saves time "getting there", loading and unloading. Cuts maintenance time and cost in half. Adds to payload on every trip through new weight distribution principle that shifts extra chassis weight to heavier-capacity front axle.

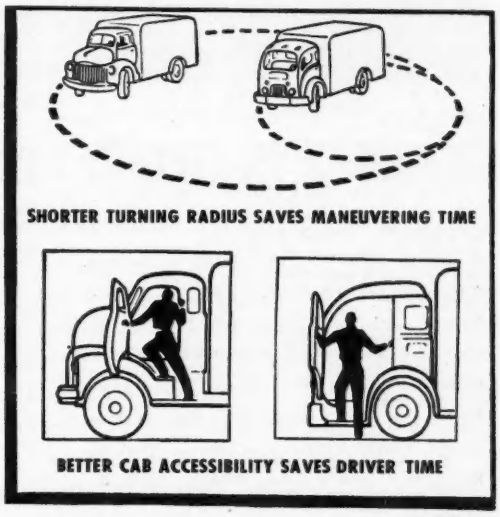
DRIVERS LIKE IT because it's the best-riding . . . best handling . . . best maneuvering truck on the road. Roomy cab has many driver energy-saving advantages.

MECHANICS LIKE IT because for the first time the front end of a truck is completely accessible in less than half a minute . . . at the turn of a key. Power-lift cab saves time, improves workmanship.

TRAFFIC ENGINEERS LIKE IT because of its new safety advantages . . . improved visibility . . . maneuvering features and famous Super Power engine performance.

CUSTOMERS LIKE IT because it's the best-dressed salesman-on-wheels you can have—a stylish design that always looks new because of its smart, functional design.

It's the same story, everywhere you go! Your local White Representative will be glad to show you how the White 3000 time- and cost-saving advantages can be applied to your business.



THE WHITE MOTOR COMPANY
Cleveland 1, Ohio, U. S. A.
THE WHITE MOTOR COMPANY OF CANADA LIMITED • *FACTORY AT MONTREAL*

Tips its cab to service

FOR 50 YEARS THE GREATEST NAME IN TRUCKS

3811-1

CLEANERS, Metal—cont.

Champion Products, Inc., P. O. Box 291, Stephenville, Texas.
Cooper Co., D. C., 1467 S. Michigan Ave., Chicago 5, Ill. "D. C."
Dearborn Chemical Co., 310 S. Michigan Ave., Chicago 4, Ill.
Detrex Corp., Box 501, Detroit 32, Mich. "Detrex," "Perm-A-Clor," "Triad."
Ditzler Color Div., Pittsburgh Plate Glass Co., 8000 W. Chicago Ave., Detroit 4, Mich.
Division Lead Co., 836 W. Kinzie St., Chicago 22, Ill. "Tabby."
Du Bois Co., 1120 W. Front St., Cincinnati 3, Ohio. "Dyna Sprex."
du Pont de Nemours & Co., E. I., Electrochemicals Dept., Wilmington, Del.
du Pont de Nemours & Co., E. I., Grasselli Chemical Dept., du Pont Bldg., Wilmington 98, Del. "Duclean" (Alkaline and acid.)
Gerlach Co., E. A., P. O. Box 133, Eddington, Bucks County, Pa. "Soax."
Hanson-Van Winkle-Munning Co., Matawan, N. J. "Matawan."
Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6, Ohio.
Homestead Valve Mfg. Co., Hypressure Jenny Div., Narrows Run Rd., Coraopolis, Pa. "Hypressure Jenny."
Houghton & Co., E. F., 303 W. Lehigh Ave., Philadelphia 33, Pa. "Houghto Clean," "Cerfak."
Industrial Chemical Products Co., 3769 Bellevue Ave., Detroit 7, Mich. "Industro," "Phosmul," "Prepaint."
Kelite Products, Inc., Box 2917 Terminal Annex, Los Angeles 54, Calif.
Kelley Co., J. W., 3401 W. 140th St., Cleveland 11, Ohio. "Beacon Brand."
Klem Chemicals, Inc., 14401 Lanson St., Dearborn, Mich.
Lake Erie Mfg. Co., 192 Chicago St., Buffalo, N. Y. "Lemco."
Lavo Co. of America, 300 W. Seventh St., Milwaukee 3, Wis. "Mirifik."
Magnus Chemical Co., 185 South Ave., Garwood, N. J.
Neilson Chemical Co., 6564 Benson St., Detroit 7, Mich. "Alumiprep," "Galvaprep," "Metalprep."
Northwest Chemical Co., 9310 Roselawn Ave., Detroit 4, Mich. "Alkalume," "Northwest."
Oakite Products, Inc., 22 Thames St., New York 6, N. Y.
Parker Rust Proof Co., 2177 E. Milwaukee Ave., Detroit 11, Mich. "Parco."
Pennsylvania Refining Co., Butler Savings & Trust Bldg., Butler, Pa. "Penn Drake."
Pennsylvania Salt Mfg. Co., 1000 Widener Bldg., Philadelphia 7, Pa. "Pennsalt."
Philadelphia Quartz Co., Ledger Bldg., Sixth & Chestnut Sts., Philadelphia 6, Pa. "Metso."
Rossaul Co., 170 Fifth Ave., New York 10, N. Y. "Rossaul No. 57."
Shell Oil Co., 50 W. 50th St., New York 20, N. Y.
Simoniz Co., 2101 Indiana Ave., Chicago 16, Ill. "E-Z-2."
Solventol Chemical Products, Inc., 15341 Second Blvd., Detroit, Mich.
Turco Products, Inc., 6135 S. Central Ave., Los Angeles, Calif. "Turco Porokleen."

CLEANERS, Spark Plug

AC Spark Plug Div., 1300 N. Dort Highway, General Motors Corp., Flint 2, Mich.
Auburn Spark Plug Co., York St., Auburn, N. Y.
Bowes "Seal Fast" Corp., 228 N. Pine St., Indianapolis 7, Ind.
Champion Spark Plug Co., 904 Upton Ave., Toledo 1, Ohio.
Globe-Union, Inc., 900 E. Keefe Ave., Milwaukee, Wis.
Kastar, Inc., 200 Lincoln Ave., New York 54, N. Y. "Handy."
Master Products Mfg. Co., 3480 E. 22nd St., Los Angeles 23, Calif. "Twin-Jet."
Sure-Rite Products Corp., 2731 N. Sixth St., Philadelphia 33, Pa. "Sure-Rite Speedee."

CLIPS, Spring

Brown Corp., 213 Bellevue Ave., Syracuse, N. Y.
Champ-Items, Inc., 6191 Maple Ave., St. Louis, Mo.
Clapp Mfg. Co., E. D., 305 W. Genesee St., Auburn, N. Y.
Cuyahoga Spring Co., 10230 Berea Rd., Cleveland 2, Ohio.
Houser Engrg. & Mfg. Co., Bluffton, Ind.
National Formetal Co., 6536 Meta Ave., Cleveland 14, Ohio.
Queen City Forging Co., Tennyson & Dumont Sts., Cincinnati 26, Ohio.
Service Spring Co., Box 638, Indianapolis 6, Ind. "Hendrix."
Wagner Mfg. Co., E. R., 4611 N. 32nd St., Milwaukee 9, Wis.
Wennett-Gordon Mfg. Co., 35 India St., Boston, Mass. "Wengo."
Woodworth Specialties Corp., 239 Water St., Binghamton, N. Y. "Easy-On."

CLUTCHES

Accurate Parts Mfg. Co., 12435 Euclid Ave., Cleveland 6, Ohio.
Auburn Clutch Co., Auburn, Ind.
Borg & Beck Div., Borg-Warner Corp., 6553 S. Menard Ave., Chicago 38, Ill. "B. & B."
Dynamatic Corp., 3307 14th Ave., Kenosha, Wis. (Induction.)
Inland Mfg. Div.-General Motors Corp., 2727 Inland Ave., Dayton 1, Ohio.
Lipe-Rollway Corp., 806 Emerson Ave., Syracuse 4, N. Y.
Long Mfg. Div. Borg-Warner Corp., 12501 Dequindre St., Detroit, Mich.
Rockford Clutch Div., Borg-Warner Corp., 1319 18th Ave., Rockford, Ill. (Truck and bus.)
Spicer Mfg. Div. of Dana Corp., 4100 Bennett Rd., Toledo 1, Ohio. "Spicer Brown-Lipe." (Truck and bus.)
Stearns Magnetic Mfg. Co., 634 S. 28th St., Milwaukee 4, Wis. (Magnetic.)
Twin Disc Clutch Co., 1328 Racine St., Racine, Wis.
V-Belt Clutch Co., 3757 Wilshire Blvd., Los Angeles 5, Calif. "Ball-Lok."
Webster Mfg., Inc., Tiffin 16, Ohio.

CLUTCH ALIGNMENT TOOLS—See Tools, Clutch Alignment

CLUTCH REBUILDING MACHINES—See Machines, Clutch Rebuilding

COCKS, Pet (Drain, Gasoline, Air, etc.)

American Brass & Iron Co., 6500 Georgia Ave., Detroit 11, Mich.
Commonwealth Brass Corp., Commonwealth Ave. & G. T. R. R., Detroit 8, Mich. (Drain.)
Consolidated Brass Co., Summit Ave. & Wabash Ry., Detroit 9, Mich.
Curtis Automotive Devices, Inc., Bedford, Ind. (Block, radiator and heater.)
Dole Valve Co., 1901 Carroll Ave., Chicago 12, Ill.
Edelmann & Co., E., 2332 Logan Blvd., Chicago 47, Ill.
Exello Accessories Mfrs., Inc., 81 Madison Ave., Hempstead, N. Y. (Gasoline.)
Imperial Brass Mfg. Co., 1234 W. Harrison St., Chicago, Ill.
Lincoln Brass Works, 2067 12th St., Detroit 16, Mich.
Lunkenheimer Co., Beekman St. & Waverly Ave., Cincinnati, Ohio.
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
Roberts Brass Mfg. Co., 5435 W. Fort St., Detroit 9, Mich.
Weatherhead Co., 300 E. 131st St., Cleveland 8, Ohio.

COILS, Field

Arrow Armature Co., 15 Fordham Road, Boston 34, Mass.
General Armature & Mfg. Co., Mill Hall, Pa.
Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich. "Mapco."
Standard Motor Products, Inc., 3718 Northern Blvd., Long Island City, L. I., N. Y.

COILS, Ignition

American Bosch Corp., 3664 Main St., Springfield 7, Mass.
American Motor Products Co., Fond du Lac, Wis. "Ampco."
Automotive Specialty Corp., 1562 DeKalb Ave., Brooklyn 27, N. Y. "Tasco."
Delco-Remy Div., General Motors Corp., Anderson, Ind.

Echlin Mfg. Co., 220 East St., New Haven, Conn.
Electric Auto-Lite Co., Toledo, Ohio. "Auto-Lite."
F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill. "Filko."
Freedco Products, Inc., 154 Nassau St., New York, N. Y.
Guaranteed Parts Co., Seneca Falls, N. Y. "GP."
Holley Carburetor Co., 5920 Vancouver Ave., Detroit 8, Mich.
Kem Mfg. Co., 20-21 Wagaraw Rd., Fairlawn, N. J.
Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich. "Mapco."
Mallory Electric Corp., Cloverdale & Fullerton Aves., Detroit 4, Mich.
Manhattan Coil Corp., 1486 Lakewood Ave., S.E., Atlanta 1, Ga.
Monarch Insulated Wire Co., 491 Broadway, New York 12, N. Y.
National Ignition Mfg. Co., 521 W. 23rd St., New York, N. Y. "Nimco."
New York Coil Co., Mont Clare, Pa.
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.
P & D Mfg Co., 1902 Steinway St., Long Island City, L. I., N. Y.
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y. "P.P.P."
R-B-M Div., Essex Wire Corp., Chestnut & Hanna Sts., Logansport, Ind.
Sorensen Mfg. Co., P., 32-31 57th St., Woodside, N. Y.
Standard Motor Products, Inc., 3718 Northern Blvd., Long Island City, N. Y. "Blue Streak," "Standard."
Stan-Test Corp., 4630 W. Harrison St., Chicago 44, Ill. "K-W."
Tungsten Contact Mfg. Co., 7311 Cottage Ave., North Bergen, N. J.
Wells Mfg. Corp., 200 W. Division St., Fond du Lac, Wis. "Wells," "Super Go."

COIL TESTERS—See Instruments, Electrical Circuit Testing

COMBUSTION ANALYZERS—See Analyzers, Combustion

COMMUTATORS, Electric Motor

Cameron Electrical Mfg. Co., 205 Main St., Ansonia, Conn.
Carty Electric and Armature Service, Inc., 1608 14th St., N.W., Washington, D. C.
Electric Materials Co., Clay & Washington Sts., North East, Pa.
Simmons Mfg. Co., Ashland, Ohio. (For Ford and Chevrolet cars.)
Toledo Standard Commutator Co., 2242 Smead Ave., Toledo 6, Ohio.

COMPOUNDS, Battery Terminal Anti-Corrosive

Arsco Mfg. & Sales Corp., 451 Tenth Ave., New York 18, N. Y. "Arsco Anti-Korode."
Champion Products, Inc., P. O. Box 291, Stephensville, Tex.
Gould Storage Battery Co., First National Bank Bldg., St. Paul 1, Minn.
Noco Co., 2074 E. 65th St., Cleveland 36, Ohio.
Pep Mfg. Co., 33 W. 42nd St., New York, N. Y. "Krode Kure."
Sure-Rite Products Corp., 2731 N. Sixth St., Philadelphia 33, Pa.
Wolfe-Kote Co., 820 Penn Ave., Sheboygan, Wis.

COMPOUNDS, Crankcase Sludge Removing

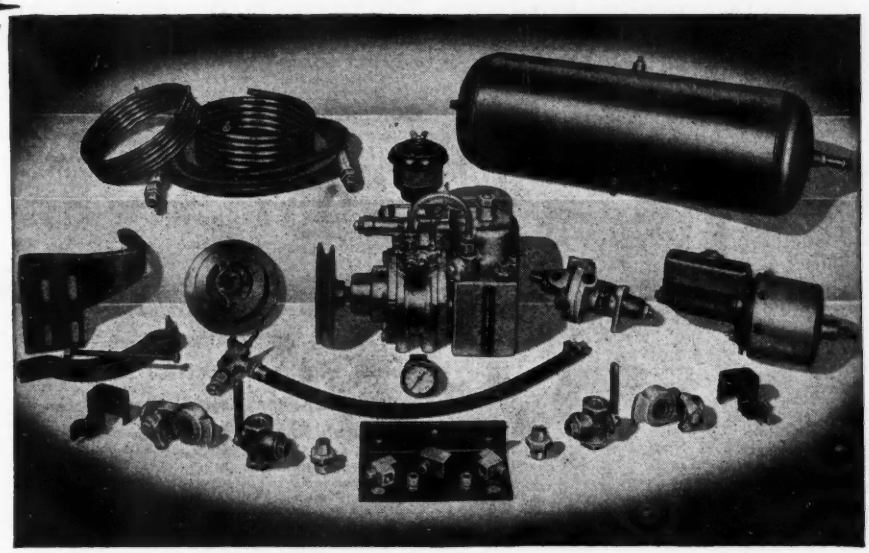
A & B Sales Corp., 39 Long Ave., Hillside 5, N. J. "Mity-Mite."
Alox Corp., 70 Pine St., New York 5, N. Y.
Castor Oil Products, Inc., 145 Alexander St., Yonkers 2, N. Y. "Trizol."
Champion Products, Inc., P. O. Box 291, Stephensville, Tex.
Curran Corp., Lawrence, Mass.
Dacar Chemical Products Co., Wabash & McCartney Sts., Pittsburgh 20, Pa. "Mototuner."
Drew & Co., E. F., 15 E. 26th St., New York, N. Y. "Ameroid."
Emerol Mfg. Co., 242 W. 69th St., New York 23, N. Y. "Marvel Hi-Rev."
Gerlach Co., E. A., P. O. Box 133, Eddington, Bucks County, Pa. "Soax."
Hollingshead Corp., R. M., Ninth & Cooper Sts., Camden, N. J. "Whiz."
Lubaid Co., 155 E. Kilbourn St., Milwaukee 1, Wis. "Lubaid T."
Magnus Chemical Co., 185 South Ave., Garwood, N. J. "Magnus 755."
National Refining Co., 500 Hanna Bldg., 14th & Euclid Ave., Cleveland 15, Ohio. "Enarco-Solv."
Oakite Products, Inc., 22 Thames St., New York 6, N. Y.
Permatex Co., Sheepshead Bay, N. Y.
Petroleum Solvents Corp., 331 Madison Ave., New York 17, N. Y. "Loosite."
Radiator Specialty Co., 1722 Dowd Rd., Charlotte 1, N. C. "3 in 1 Nu-Power."
Randall Products Mfg. Co., 100 N. Moore St., New York 13, N. Y. "Motor-Kleen."
Rust Master Chemical Corp., 712 Beacon St., Boston, Mass. "Six Master."
Solrun Services, Inc., 49 N. Second St., Philadelphia 6, Pa. "Runzit."

WAGNER AIR BRAKES

Are Important

in profitable trucking operations

INSTALL THEM ON EVERY VEHICLE IN YOUR FLEET



Safety on the highway is of paramount importance to profitable trucking operation. Fleet owners and commercial car operators are conscious of the many benefits of reliable air brakes—not only from a safety angle, but from a profit angle as well. That's why thousands of operators have installed Wagner Air Brakes—the air brakes that are dependable—the air brakes that provide reliable safety and pay for themselves in a short time.

Available in COMPLETE KITS

It is easy to install air brakes on trucks, tractors and buses with Wagner Air Brake Kits. They come to you complete—Each kit contains all parts, connections and brackets as well as simple, easy-to-follow installation instructions. You can convert the braking system of all types of heavy-duty vehicles to air with a minimum of time and effort.

And remember, only Wagner has the famous Rotary Air Compressor—the most reliable air compressor available. It is compact and mounts right under the hood, and can be either belt or direct-driven to give highest efficiency. Write today for complete information.

Ask For Your Copy of Bulletin KU-50B.

★ ★ ★ ★ ★ ★ ★

Service Exchange Units Are Available at All Wagner Branches

Wagner Electric Corporation

6470 PLYMOUTH AVENUE, SAINT LOUIS 14, MO., U. S. A.

Wagner Electric Corporation EST. 1891

LOCKHEED HYDRAULIC BRAKE PARTS and FLUID • MoRel CoMaX BRAKE LINING • AIR BRAKES • TACHOGRAPHS ELECTRIC MOTORS • TRANSFORMERS • INDUSTRIAL BRAKES

The System With The Rotary Compressor

K49-3A

1944-1

COMPOUNDS, Crankcase Sludge Removing—cont.

V-O Mfg. Co., 13245 Sherman Way, North Hollywood, Calif.

COMPOUNDS, Rubbing and Polishing

Atomix, Inc., Wilmington 99, Del. "Atolak."
Beckwith-Chandler Co., Delancey & Rutherford Sts., Newark, N. J. "B/C."
Belvidere Laboratories, 700 W. Locust St., Belvidere, Ill. "Speedite."
Briggs Mfg. Co., Refinishing Materials Div., 3001 Miller St., Detroit 11, Mich.
Brown Co., Andrew, 5400 District Blvd., Los Angeles 22, Calif. "Brolite."
Buffalo Plastic Finish Co., 152 Oak St., Buffalo, N. Y. "Plastic Gloss."
Campbell Paint & Varnish Co., Div. Glidden Co., 106 Gratiot St., St. Louis 2, Mo. "Glidden Quality."
Colorglo Products, Inc., 109 N. Newlin Ave., Whittier, Calif.
Ditzler Color Div., Pittsburgh Plate Glass Co., 8000 W. Chicago Ave., Detroit 4, Mich.
Do-Mor, Inc., 1121 Fourth Ave., Rockford, Ill.
du Pont de Nemours & Co., E. I., Chemical Specialties Div., du Pont Bldg., Wilmington 98, Del. "No. 7."
du Pont de Nemours & Co., E. I., Refinish Sales Dept., Wilmington, Del. "Duco."
Finch, Ltd., Leon, 728 E. 59th St., Los Angeles 1, Calif. "Syn-Rub." "Quik-Rub."
Formax Mfg. Co., 3171 Bellevue St., Detroit 7, Mich.
Hollingshead Corp., R. M., Ninth & Cooper Sts., Camden, N. J. "Whiz."
International Metal Polish Co., 1910 Quill St., Indianapolis, Ind. "Blue Ribbon."
Ken-nite Co., 2926 Hancock Ave., W., Detroit 8, Mich.
Lucas & Co., John, 1617 Pennsylvania Blvd., Philadelphia 3, Pa. "Lucote."
McAleer Mfg. Co., Box 149, Rochester, Mich.
Mac's Super Gloss Co., 6040 N. Figueroa St., Los Angeles 42, Caalif.
Martin-Senour Co., 2520 Quarry St., Chicago 8, Ill.
Park Chemical Co., Military & Vancouver Aves., Detroit 4, Mich. "Parko."
Sewall Paint & Varnish Co., 1009 W. Eighth St., Kansas City, Mo. "Dural."
Sherwin-Williams Co., 101 Prospect Ave., N. W., Cleveland 1, Ohio.
Simoniz Co., 2101 Indiana Ave., Chicago 16, Ill. "Simoniz," "Simoniz Kleener." (Rubbing).
Speco, Inc., 7308 Associate Ave., Cleveland 9, Ohio.
Stain-Ox Co., 625 E. First Ave., Roselle, N. J.
Sure-Rite Products Corp., 2731 N. Sixth St., Philadelphia 33, Pa.
Swavely Chemical & Varnish Works, 831 Page St., Flint 5, Mich. "Smooth Glaze."
Tumbler Laboratories, J. A., 423 S. Hanover St., Baltimore 1, Md.

COMPOUNDS, Tire Repair

Ace Rubber Products, Inc., 100 Beech St., Akron, Ohio. "Camelback." (Sole distributors, M. J. Miscoe Co., Akron, Ohio.)
Durkee-Atwood Co., 315 Seventh St., N. E., Minneapolis 13, Minn.
Even-Air Corp., Caldwell, N. J.
Firestone Tire & Rubber Co., S. Main St., Akron, Ohio.
Goodrich Co., B. F., 500 S. Main St., Akron, Ohio.
Gross Mfg. Co., 1711 California St., Monrovia, Calif.
Hollingshead Corp., R. M., Ninth & Cooper Sts., Camden, N. J.
Inland Rubber Corp., 146 W. 27th St., Chicago 16, Ill.
Lee Rubber & Tire Corp., Conshohocken, Pa.
U. S. Chemical & Supply Co., 1424 McGee St., Kansas City 6, Mo. "Z-4."
United States Rubber Co., Rockefeller Center, Ave. of the Americas, New York 20, N. Y.
Van Cleef Bros., Woodlawn Ave., 77th to 78th St., Chicago, Ill. "Dutch Brand."

COMPOUNDS, Valve Grinding

Baltimore Paint & Color Works, 148 S. Calverton Rd., Baltimore, Md. "Kartex," "Senior Certified."
Bell Co., 411 N. Wolcott Ave., Chicago 22, Ill. "Bell's," "Flare."
Boyer Chemical Laboratories, 2232 S. Wabash Ave., Chicago, Ill. "3B."
Carborundum Co., Buffalo Ave., Niagara Falls, N. Y.
Clover Mfg. Co., Norwalk, Conn.
Durkee-Atwood Co., 215 Seventh St., N. E., Minneapolis 13, Minn.
Fidelity Mfg. Co., Front & Bridge Sts., Catasauqua, Pa. "Alrite," "Fidelity."
Harrison & Co., P. O. Box 457, Haverhill, Mass. "4A."

If you cannot find the product classification you seek, see "Specialized Products," on Page 254.

Hollingshead Corp., R. M., 840 Cooper St., Camden, N. J. "Whiz."
Pep Mfg. Co., 33 W. 42nd St., New York, N. Y.
Permatex Co., 1720 Ave. Y, Brooklyn 29, N. Y.
Burfex Mfg. Co., 1830 Fairmount Ave., Philadelphia 30, Pa.
Timesaver Products Co., 546 W. Washington Blvd., Chicago 6, Ill.
Zip Abrasive Co., 1360 W. Ninth St., Cleveland 13, Ohio.

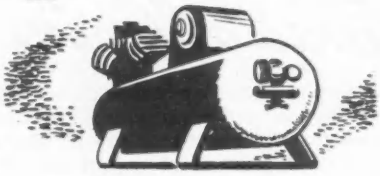
COMPOUNDS, Welding

Marquette Mfg. Co., 307 E. Hennepin Ave., Minneapolis 14, Minn. "Marquette Spatter-Shield."
Midland Paint & Varnish Co., 9115 Reno Ave., Cleveland 5, Ohio. "No-Spat." (To prevent bonding of spatter to parts.)
Wayne Chemical Products Co., Copeland Ave. & M.C.R.R., Detroit, Mich. ("Flash-Ex," to prevent bonding of flash to dies; "Spatter-Ex," to prevent bonding of spatter to parts.)
Wolfe-Kote Co., 820 Penn Ave., Sheboygan, Wis. "Anti-Spatter." (To prevent bonding of spatter to parts.)

COMPRESSION GAGE—See Gages, Cylinder Compression

COMPRESSORS, Air

Allis-Chalmers Mfg. Co., Milwaukee 1, Wis.
American Air Compressor Corp., Dell Ave. & 48th St., North Bergen, N. J. "American Fairhurst."
American Brake Shoe Co., Kellogg Div., 97 Humboldt St., Rochester 9, Ill. "Kellogg-American."
Beach-Russ Co., 62 Church St., New York 7, N. Y.
Binks Mfg. Co., 3114 Carroll Ave., Chicago 12, Ill. (For operating spray equipment.)
Black Mfg. Co., 1416 W. Baltimore St., Baltimore 23, Md.
Brown Corp., W. R., 5720 Armitage Ave., Chicago, Ill.
Brunner Mfg. Co., 1821 Broad St., Utica 1, N. Y.
Buell Mfg. Co., 919 W. 49th Place, Chicago 9, Ill.
Campbell-Hausfeld Co., 801 Moore St., Harrison, Ohio. "Pressure Queen."
Champion Pneumatic Machinery Co., 8170 S. Chicago Ave., Chicago 17, Ill.
Chicago Pneumatic Tool Co., 6 E. 44th St., New York, N. Y. "CP."
Cochin Mfg. Co., J. D., 1440 E. Grand Ave., South San Francisco, Cal. "Easy."
Curtis Pneumatic Machinery Div. of Curtis Mfg. Co., 1927 Kienlen Ave., St. Louis 20, Mo.



Davey Compressor Co., Kent, Ohio.
Dayton Air Compressor Co., 427 Valley St., Dayton 4, Ohio.
Decora Mfg. Co., 1516 Park Ave., Emeryville 8, Calif.
Detroit Air Compressor Co., 89 E. Baltimore Ave., Detroit 2, Mich. "Daco."
De Vilbiss Co., 300 Phillips Ave., Toledo 1, O.
Eclipse Air Brush Co., 390 Park Ave., Newark 7, N. J.
Electric Sprayit Co., 14th & Illinois Sts., Sheboygan, Wis. "Sprayit," "Elsco," "Wilmington."
Gardner-Denver Co., S. Front St., Quincy, Ill.
Gast Mfg. Corp., 103 Hinkley St., Benton Harbor, Mich.
Gilbert & Barker Mfg. Co., West Springfield, Mass. "Gilbarco."
Hayward Hallet Equipment Co., Div. of Hayward Lumber & Investment Co., 410 San Fernando Rd., Los Angeles, Calif.
Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y.
Keystone Compressor Co., 8407 Hegerman St., Holmesburg, Philadelphia 36, Pa.
Lynch Corp., Par Compressor Div., 3600 Summit St., Toledo, Ohio. "Par."
Motor Generator Corp., Troy, Ohio.
Paasche Airbrush Co., 1909 Diversey Parkway, Chicago 14, Ill.
Pioneer Air Compressor Co., 120 Chambers St., New York, N. Y.
Quincy Compressor Co., 217 Main St., Quincy, Ill.
Saylor-Beall Mfg. Co., St. Johns, Mich.
Schramm, Inc., Virginia & Garfield Aves., West Chester, Pa.
Scott Air Compressor Co., 4682 Mulberry St., Philadelphia 24, Pa.
Sharpe Mfg. Co., 1224 Wall St., Los Angeles 15, Cal.
Southwest Pump Co., First and Center Sts., Bonham, Tex.
United States Air Compressor Co., 5300 Harvard Ave., Cleveland 5, Ohio.
Wayne Pump Co., Tecumseh & Cochran Sts., Fort Wayne 4, Ind.
Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill.
Westinghouse Air Brake Co., Industrial Div., (Wilmerding) Pittsburgh, Pa.
Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K. R. W."
Wood Mfg. Co., John, Muskegon, Mich. "Eco." (Selling company, Service Station Equipment Co., Muskegon, Mich.)
Worthington Pump & Machinery Corp., Harrison, N. J. "Blue Brute."

COMPRESSORS, Air (Power Take-off Type)

Beach-Russ Co., 62 Church St., New York 7, N. Y.
Bendix-Westinghouse Automotive Air Brake Co., 901 Cleveland Rd., Elyria, Ohio.
Davey Compressor Co., Kent, Ohio. (Truck.)
Schramm, Inc., West Chester, Pa.
Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo.

CONDENSER TESTERS, See Instruments, Electrical Circuit Testing

CONDENSERS, Ignition

American Bosch Corp., 3664 Main St., Springfield 7, Mass.
American Motor Products Co., Fond du Lac, Wis. "Ampco."
Andrews Mfg. Co., 924 S. Thersea Ave., St. Louis 3, Mo.
Automotive Specialty Corp., 1562 DeKalb Ave., Brooklyn 27, N. Y. "Tasco."
Delco-Remy Div., General Motors Corp., Anderson, Ind.
Echlin Mfg. Co., 220 East St., New Haven, Conn.
Electric Auto-Lite Co., Toledo, Ohio.
F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill. "Filko."
Good-All Electric Mfg. Co., 112 W. First St., Ogallala, Neb.
Guaranteed Parts Co., Seneca Falls, N. Y. "GP."
Holley Carburetor Co., 5920 Vancouver Ave., Detroit 8, Mich.
Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich. "Mapco."
Mallory Electric Corp., Cloverdale & Fullerton Aves., Detroit 4, Mich.
Monarch Insulated Wire Co., 491 Broadway, New York 12, N. Y.
National Ignition Mfg. Co., 521 W. 23rd St., New York, N. Y. "Nimco."
New York Coil Co., Mont Clare, Pa.
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.
P & D Mfg. Co., 1902 Steinway St., Long Island City, L. I., N. Y.
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
Shurhit Products, Inc., Waukegan, Ill.
Sorensen Mfg. Co., P., 32-31 57th St., Woodside, N. Y.
Springfield Electrical Specialties, Inc., 12-124 Wooster St., New York 12, N. Y. "Superseal."
Standard Motor Products, Inc., 3718 Northern Blvd., Long Island City, L. I., N. Y. "Blue Streak," "Standard."
Tungsten Contact Mfg. Co., 7311 Cottage Ave., North Bergen, N. J.
Wells Mfg. Corp., 200 W. Division St., Fond du Lac, Wis. "Wells," "Super Go."

CONNECTING ROD BEARINGS, See Bearings

CONNECTING RODS

Aluminum Co. of America, Gulf Bldg., Pittsburgh 19, Pa. "Lynite." (Aluminum alloy.)
Bohn Aluminum & Brass Corp., 1400 Lafayette Bldg., Detroit 26, Mich.
Canton Drop Forging & Mfg. Co., 207 12th St., S. E., Canton, Ohio.
Continental Motors Corp., Muskegon 82, Mich.
Federal-Mogul Service, Detroit 13, Mich.
Niagara Motors Corps., Lampshire St., Dunkirk, N. Y.
Park Drop Forge Co., 777 E. 79th St., Cleveland 3, Ohio.
Parks Engineering Co., 347 E. Ward St., Milwaukee 7, Wis. "P-A."

Combine Sturdiness-Strength-Stamina with Heavy-Duty HARDWARE

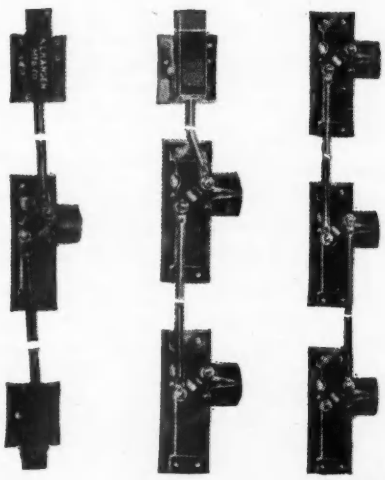
Body Builders
Fleet Owners

This Door Lock is very adaptable!

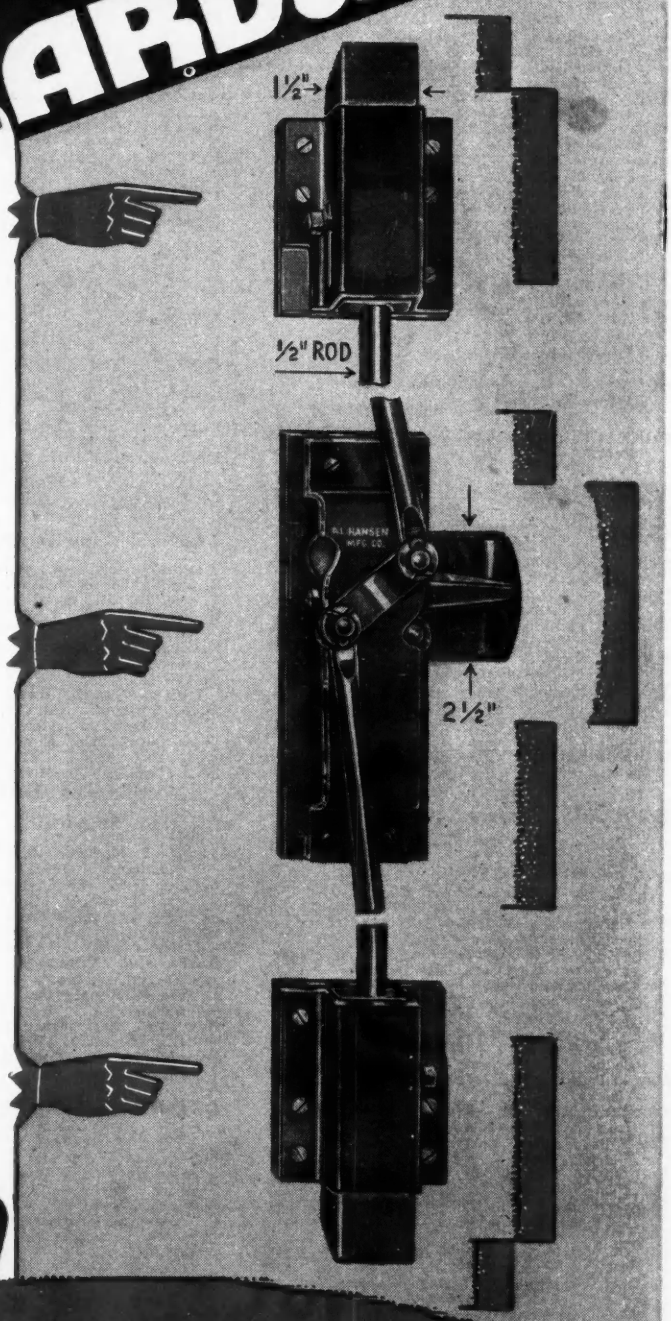
MADE especially for heavy-duty service, Hansen No. 111 Lock is rugged, durable, adaptable. Nothing to assemble. No extras to buy. Complete.

1. Outside handle and locking mechanism are adaptable for right—or left-hand doors.
2. Lock may be used with center mechanism at either top or bottom, or both, as desired.
3. Bolts at top and bottom are 1½" wide. Center bolt is 2½" wide. Rods are ½" dia.
4. Locking bolts are held open or closed **under pressure!** Lock cannot accidentally open.

Supplied as standard equipment with ½" dia. rod 48" top, 36" bottom, for doors up to 7'; or two 48" rods for doors up to 8'. Choice of three handles. Request Details.



Lock may be used in three combinations, as shown.



HANSEN HARDWARE for Commercial Bodies

Hansen

The Hardware for Hard Wear

A. L. HANSEN MFG. CO. 5047 RAVENSWOOD AVE. CHICAGO 40, ILL.

780-1

CONNECTING RODS—*cont.*

Pioneer Motor Bearing Co., Eddy St. & Van Ness Ave., San Francisco, Calif.
Toledo Steel Products Co., 3300 Summit St., Toledo 11, Ohio.

CONNECTORS, Electrical Circuit (Trailer)

Berg Mfg. & Sales Co., 24 E. 18th St., Chicago 16, Ill. "Berg Royal," "Berg Shur-Lock."
Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass. "Hencol."
K-D Lamp Div., Noma Electric Corp., 1910 Elm St., Cincinnati 10, Ohio.
Kliegl Bros. Universal Electric Stage Lighting Co., 321 W. 50th St., New York, N. Y.
Pollak Corp., Joseph, 75 Freeport St., Boston 22, Mass.
Pyle-National Co., 1334 N. Kostner Ave., Chicago 51, Ill.
Scintilla Magneto Div. of Bendix Aviation Corp., Sherman Ave., Sidney, N. J. "Bendix-Scintilla."
Sherman Mfg. Co., H. B., 22 Barney St., Battle Creek, Mich.
Warner Electric Brake Mfg. Co., P. O. Box 620, Beloit, Wis.
Whitaker Cable Corp., 1301 Burlington Ave., North Kansas City 16, Mo.
White, Inc., J. W., 11th & Cambria Sts., Philadelphia 33, Pa.

CONTACT POINT ALIGNING TOOLS, See Tools, Ignition

CONTACT POINT FILES, See Files Contact Point

CONTACT POINTS, See Points (Ignition)

COOLERS, Oil Temperature

Bell & Gossett Co., 8200 Austin Ave., Morton Grove, Ill. "B & G."
G & O Mfg. Co., 138 Winchester Ave., New Haven, Conn.
Harrison Radiator Div., General Motors Corp., Washburn & Walnut Sts., Lockport, N. Y.
Midwest Thermotrol, 111 N. Fifth St., Keokuk, Iowa. "Continental Thermotrol."
Yates-American Machine Co., Beloit, Wis.
Young Radiator Co., 709 S. Marquette St., Racine, Wis.

CORROSION PREVENTIVES, See Rust Preventives

COUPLERS, Trailer

Acme Mfg. Co., 1406 Agnes St., Kansas City, Mo.
American Steel Foundries, Automotive Div., 400 N. Michigan Ave., Chicago 11, Ill. "A. S. F."
Atwood Vacuum Machine Co., 2500 N. Main St., Rockford, Ill. "Dayton."
Austin Trailer Equipment Co., 1148 W. Western Ave., Muskegon, Mich.
Berluti Mfg. Co., 1023 Wheeler St., Saginaw, Mich. "Snapping Turtle." (House and utility trailer.)
Buller Mfg. Co., Hillsboro, Kan.
Campbell Co., H. D., 316 N. Sixth St., Rochelle, Ill. "Wayne."
Dutton-Lainson Co., Mfg. Div., Hastings, Neb. "Rose."
Eberhard Mfg. Co., Div. Eastern Malleable Iron Co., Evarts Ave., Cleveland 4, Ohio
Fruehauf Trailer Co., 10940 Harper Ave., Detroit, Mich.
Fulton Co., 1912 S. 82nd Ave., Milwaukee 14, Wis.
Hammer Blow Tool Co., 602½ Third St., Wausau, Wis. "Bull Dog," "Back-in Hitch."
Holland Hitch Co., 430 W. 18th St., Holland, Mich.
Jordan Equipment Co., 2526 Wood St., Oakland 7, Calif. ("Quick-Guide" aligner.)
McKay Co., 1005 Liberty Ave., Pittsburgh 22, Pa. "McKay Klip Lock." (Emergency chain.)
Marvel Industries, Inc., 14600 E. Seven Mile Road, Detroit 5, Mich.
Mercury Mfg. Co., 4044 S. Halsted St., Chicago 9, Ill.
Monroe Mfg. Co., C. N., 2525 S. Dort Highway, Flint 7, Mich.
Rapids Equipment Co., B. Ave. & Sixth St., N. W., Cedar Rapids, Iowa. (Sole distributors, Rapids Products Co., 220 Sixth St., N. W., Cedar Rapids, Iowa.)
Service Caster & Truck Corp., Albion, Mich.
Shuler Axle Co., 2901 S. Second St., Louisville 8, Ky.
Tow-Master Corp., 1111 N. Clark St., Chicago 10, Ill.
Weber Trailer & Mfg. Co., 1104 E. Fifth St., Los Angeles 13, Cal.

COVERING, Floor (Bus or Truck)

Armstrong Cork Co., Industrial Div., Lancaster, Pa. "Airoflor," "Armstrong's," "Automat," "Armoflor," "Traffex." (Linoleum.)
Moore & Co., Samuel, Mantua, Ohio. "Rub-Rub."

COVERS, Radiator Grille

Belmor Mfg. Co., 457 N. Oakley Blvd., Chicago 12, Ill.
Detroit Cover Co., 3410 W. Fort St., Detroit 16, Mich.
Hardy Mfg. Corp., Broadway & Water Sts., Pendleton, Ind. "Winterfronts." (Automatic.)
Hinson Mfg. Co., Westfield Ave. & Menges St., Waterloo, Iowa.
Kysor Heater Co., Haynes St., Cadillac, Mich. (Automatic.)
Lipschultz Bros., 317 Sibley St., St. Paul, Minn.
Niagara Fabric Mfg. Co., 161 Grand St., New York 13, N. Y.
Protection Products Co., 2637 W. Polk St., Chicago 12, Ill.
Superior Auto Fabric Co., 2457 S. Michigan Ave., Chicago, Ill.
Temme & Co., W. H. 327 Madison St., Oak Park, Ill.

COVERS, Truck

Crawford-Austin Mfg. Co., Sixth & Jackson Sts., Waco, Tex. "Dux-Bak."
Pittsburgh Steel Products Co., Grant Bldg., Pittsburgh 30, Pa.
Turk Corp., C. K., 1122 Mishawaka Ave., South Bend 15, Ind. "Caravan Top."
Webb Mfg. Co., Fourth & Cambria Sts., Philadelphia 33, Pa.

CRANES, Crawler and Truck Mounted

Austin-Western Co., Aurora, Ill. "Badger."
Browning Crane & Shovel Co., 16226 Waterloo Rd., N. E., Cleveland 10, Ohio.
Hyster Co., 2902 N. E. Clackamas St., Portland 8, Ore.
Koehring Co., 3026 W. Concordia Ave., Milwaukee 10, Wis. (Crawler.)
Link-Belt Speeder Corp., 1201 Sixth St., S. W., Cedar Rapids, Iowa.
Silent Hoist & Crane Co., 841 63rd St., Brooklyn 20, N. Y. (Also Milford crane-truck.)
Thew Shovel Co., E. 28th St. & Fulton Rd., Lorain, Ohio. "Thew-Lorain."
Unit Crane & Shovel Corp., 6411 W. Burnham St., Milwaukee 14, Wis.

CRANES, Monorail

American Monorail Co., 13107 Athens Ave., Cleveland 7, Ohio.
Detroit Hoist & Machine Co., 8227 Morrow St., Detroit 11, Mich.
Euclid Crane & Hoist Co., Euclid, Ohio.
Harnischfeger Corp., 4400 W. National Ave., Milwaukee, Wis. "P & H."
Hobbs Co., Clinton E., 203 Chelsea St., Everett 49, Mass.
Louden Machinery Co., 1102 West Ave., Fairfield, Iowa.
Northern Engineering Wks., 2615 Atwater St., Detroit 7, Mich.
Roeper Crane & Hoist Works, 1720 N. Tenth St., Reading, Pa.

CRANES, Portable (Hand Operated)

See also Blocks or Hoists, Chain.

Baker Mfg. Co., 154 W. Water St., Kankakee, Ill. "Hercules."
Bradney Machine Co., 70 Monhagen Ave., Middletown, N. Y.
Bridgeport Chain & Mfg. Co., 1201 Crescent Ave., Bridgeport, Conn. "Round."
Calco Steel Products Co., 23 New England Ave., Dorchester 24, Mass.
Cam Tool Co., 288 12th St., Oakland, Calif. "Blue Heron."
Cardinal Corp., 1835 University Ave., St. Paul 4, Minn. "Hydro-Lift." (Hydraulic.)
Chisholm-Moore Hoist Corp. (Div. Columbus McKinnon Chain Corp.), Fremont Ave., Tonawanda, N. Y. "C-M."
Electric Service Mfg. Co., 17th & Cambria Sts., Philadelphia 32, Pa.
Evans Reamer & Machine Co., 5490 Dunham Rd., Maple Heights, Ohio.
Ford Chain Block Div. of American Chain & Cable Co., Second & Diamond Sts., Philadelphia 22, Pa.
Hill Acme Co., "Canton" Div., 6400 Breakwater Ave., N. W., Cleveland, Ohio.
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio. (Hydraulic.)
Lewis-Shepard Products, Inc., 155 Walnut St., Watertown Sta., Boston, Mass.
Manley Mfg. Div. American Chain & Cable Co., E. Princess & Charles Sts., York, Pa.
Manzel, Inc., 315 Babcock St., Buffalo 10, N. Y. (Hydraulic.)
Round & Son, David, Broadway & Henry Rd., Cleveland 5, Ohio. "Simplex."
Ruger Equipment Co., 2425 St. Clair Ave., Cleveland 14, Ohio; P. O. Box 3821, Portland 8, Ore. (Hydraulic.)
Sasgen Derrick Co., 3101 W. Grand Ave., Chicago 22, Ill.
Service Caster & Truck Corp., Albion, Mich.

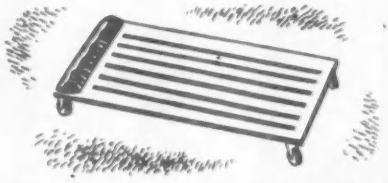
CRANES, Service Truck

American Coach & Body Co., 9503 Woodland Ave., Cleveland 4, Ohio.
Ashton Power Wrecker Equipment Co., Inc., 1701 W. Lafayette, Detroit 16, Mich.
Cam Tool Co., 288 21st St., Oakland, Calif. "Blue Heron."
Erie Hoist Co., 2000 Holland St., Erie, Pa.
Gar Wood Industries, Inc., Wayne Div., Wayne, Mich. "GW."
Holmes Co., Ernest, 2505 E. 43rd St., Chattanooga, Tenn.
Howell Industrial Truck Co., 8899 Maywood Ave., Cleveland 2, Ohio.
Hubbard Mfg. Co., Farmland, Ind.
Manley Mfg. Div., American Chain & Cable Co., E. Princess & Charles Sts., York, Pa.
Marquette Mfg. Co., 307 E. Hennepin Ave., Minneapolis 14, Minn.
Ruger Equipment Co., 2425 St. Clair Ave., Cleveland 14, Ohio; P. O. Box 3821, Portland 8, Ore. (Hydraulic.)
Sasgen Derrick Co., 3101 W. Grand Ave., Chicago 22, Ill. (Sole distributors, Truckstell Co., 1672 Union Commerce Bldg., Cleveland 14, Ohio.)
Silent Hoist & Crane Co., 841 63rd St., Brooklyn 20, N. Y.
Stimmel Winch Co., 37-24 33rd St., Long Island City 1, N. Y.
Thew Shovel Co., E. 28th St. & Fulton Rd., Lorain, Ohio. "Thew-Lorain."

CRANKSHAFT, Grinders, See Grinders, Crankshaft

CREEPERS, Repair

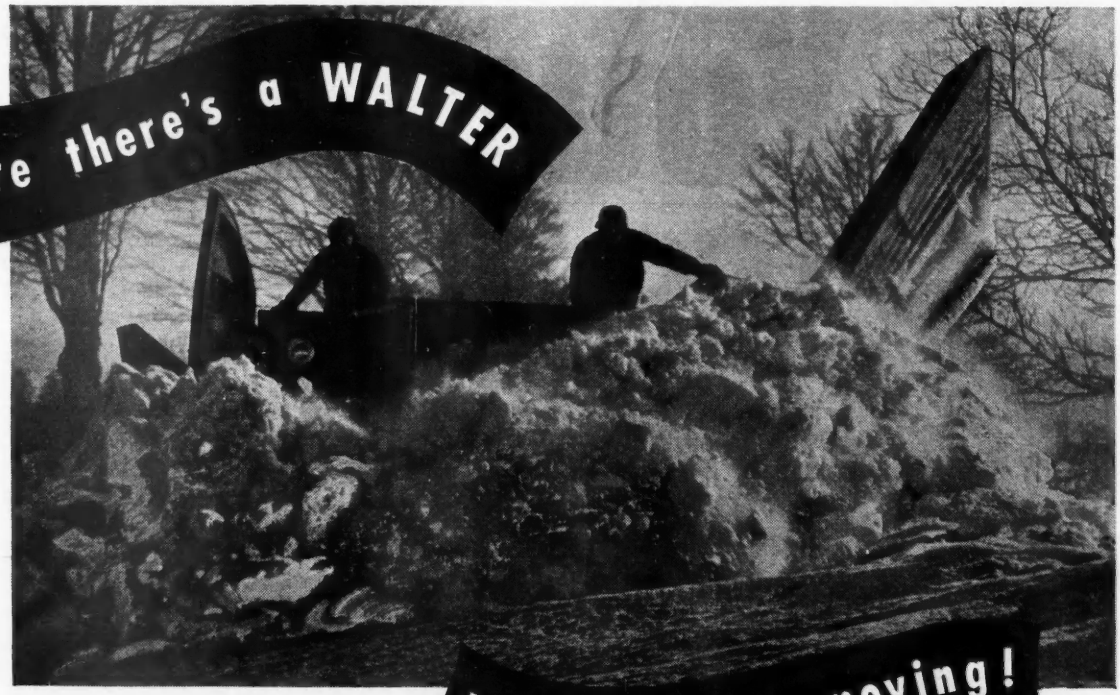
Advertising Distributors, Inc., 5046 Shaw Ave., St. Louis 10, Mo. "A.D.I."
Auto Sheet Metal Works, 735 E. Gage Ave., Los Angeles 1, Calif. "Trojan."
Balcrank, Inc., Disney St. nr. Marburg, Cincinnati, Ohio. "Brookins."
Boyco—See United States Steel Products Co., Boyle Mfg. Div.
Clinton Products Co., Clinton, Mich. "Gi-Gr-Nite," "Lo-Boy."
Holmes Co., Ernest, 2505 E. 43rd St., Chattanooga, Tenn.
Huffman Mfg. Co., Davis & Gilbert Ave., Dayton 1, Ohio. (Metal, also wood.)



Hulbert Mfg. Co., 7 State Rd., S., Ashtabula, Ohio. "Smashproof." (With or without brake); "Red-Head."
Kay-Wood Products Inc., Bedford, Pa. (Wood.)
Lawson Co., F. H., Evans & Whateley Sts., Cincinnati, Ohio.
Market Forge Co., 25 Garvey St., Everett, Mass. "Maforco."
Mohler Engineering Co., Ypsilanti, Mich. "Lo-Line."
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
United States Steel Products Co., Boyle Mfg. Div., 5100 Santa Fe Ave., Los Angeles 11, Calif. "Boyco."
Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K.R.W."

CUSHIONS, Seat (Rubber)

Bostrom Mfg. Co., 133 W. Oregon St., Milwaukee 4, Wis.
Dunlop Tire & Rubber Corp., Sheridan Drive, Buffalo 7, N. Y. "Dunlop Pillo Foam."
Firestone Tire & Rubber Co., S. Main St., Akron, Ohio.
Goodyear Tire & Rubber Co., E. Market St., Akron 16, Ohio. "Airfoam."
Hewitt Restfoam Div., Hewitt-Robins, Inc., 240 Kensington Ave., Buffalo 5, N. Y. "Restfoam."
New York Rubber Corp. (Airubber Dept.), Empire State Bldg., New York 1, N. Y. "Airubber."
Perma Products Co., 7001 Morgan Ave., Cleveland 4, Ohio.



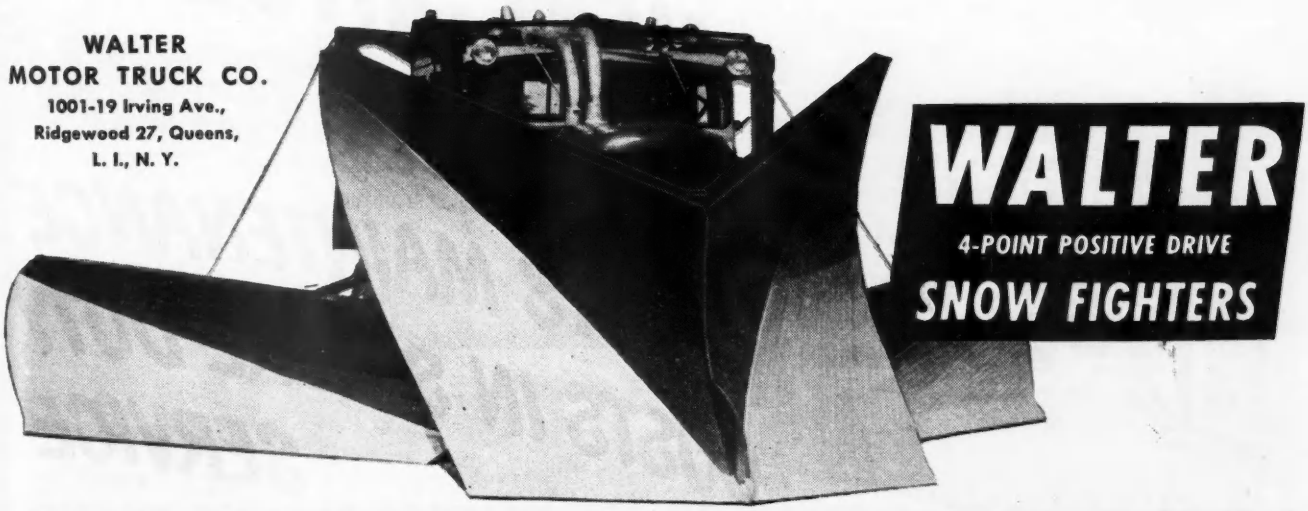
Faster clearance opens more miles
Greater power blasts deepest drifts

FROM congested city streets to drifted mountain passes, Walter Snow Fighters clear the way fast and keep traffic moving, under every possible condition of snow and ice. These big, powerful, rugged snow removal units—with the 100% traction of Walter Four-Point Positive Drive—keep going when other equipment is stalled.

Don't risk your winter safety on light, underpowered or improvised equipment that is slow, hard to control, inadequate for the job. Use Walter Snow Fighters—the only equipment scientifically designed and built for snow removal. Available in models from 150 to 250 hp., with choice of V-Plows, Speed Plows, Side Wings, Center Scrapers, Controls, Sand and Chemical Spreaders, Bodies, etc. See your Walter Distributor, or write us for literature.

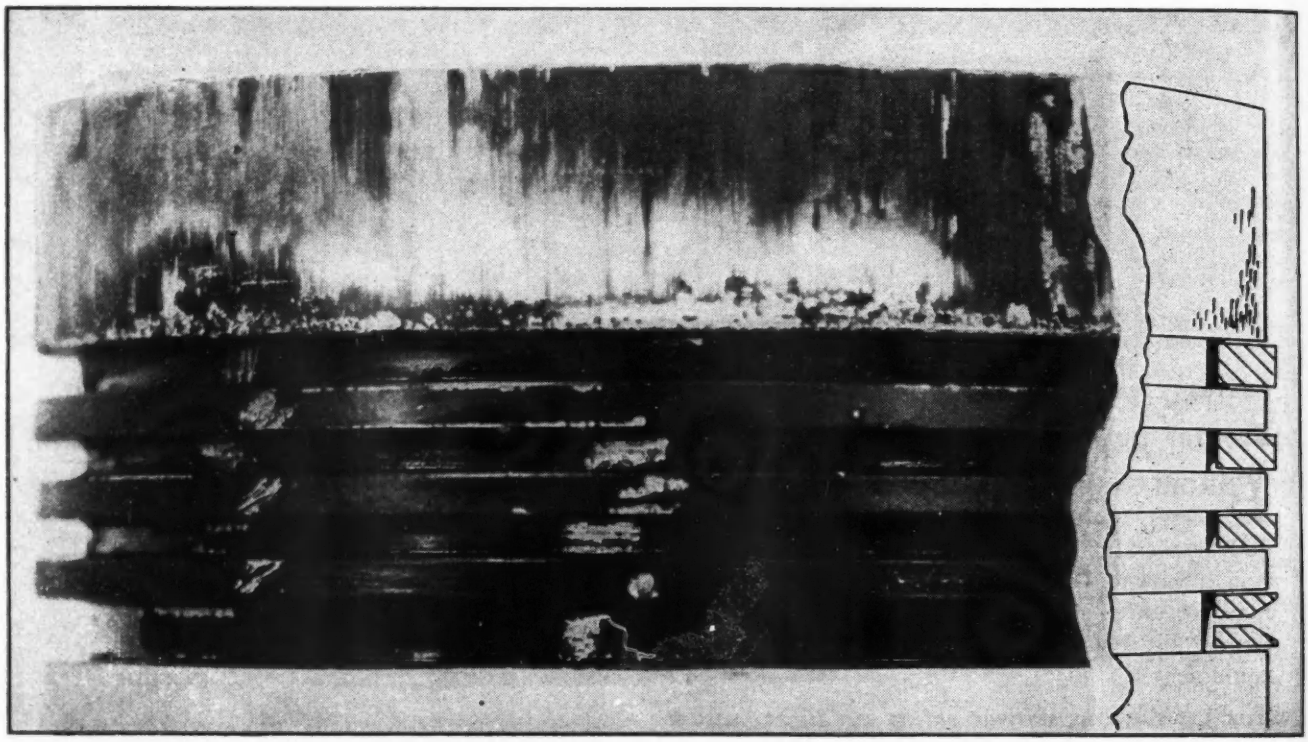
Shown below, and in action above, is the 250 hp. Walter Snow Fighter, with giant V-Plow and two side wings, hydraulically controlled. Clearing width 28 ft., at 20-30 mph.

WALTER MOTOR TRUCK CO.
1001-19 Irving Ave.,
Ridgewood 27, Queens,
L. I., N. Y.

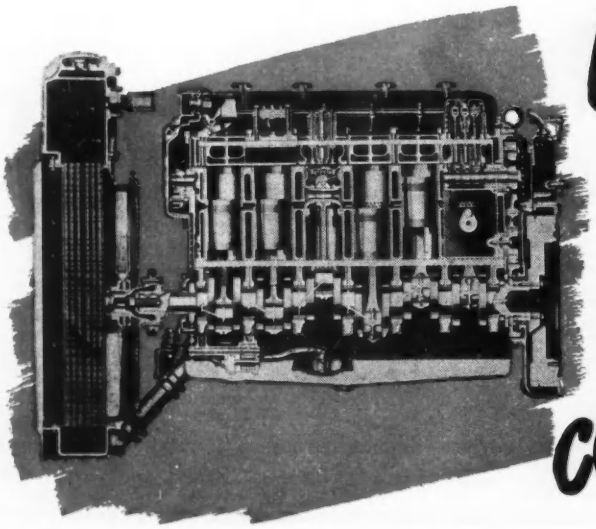


Do Your PISTON

...LOOK LIKE THIS?



WITH REGULAR HEAVY DUTY OIL – This photo of an actual piston shows a typical example of what happens to piston ring grooves under SEVERE DUTY service when regular Heavy Duty 2-104B motor oil is used. The drawing helps to clarify the condition shown in the unretouched photograph. Note the heavy deposits that coat all surfaces.

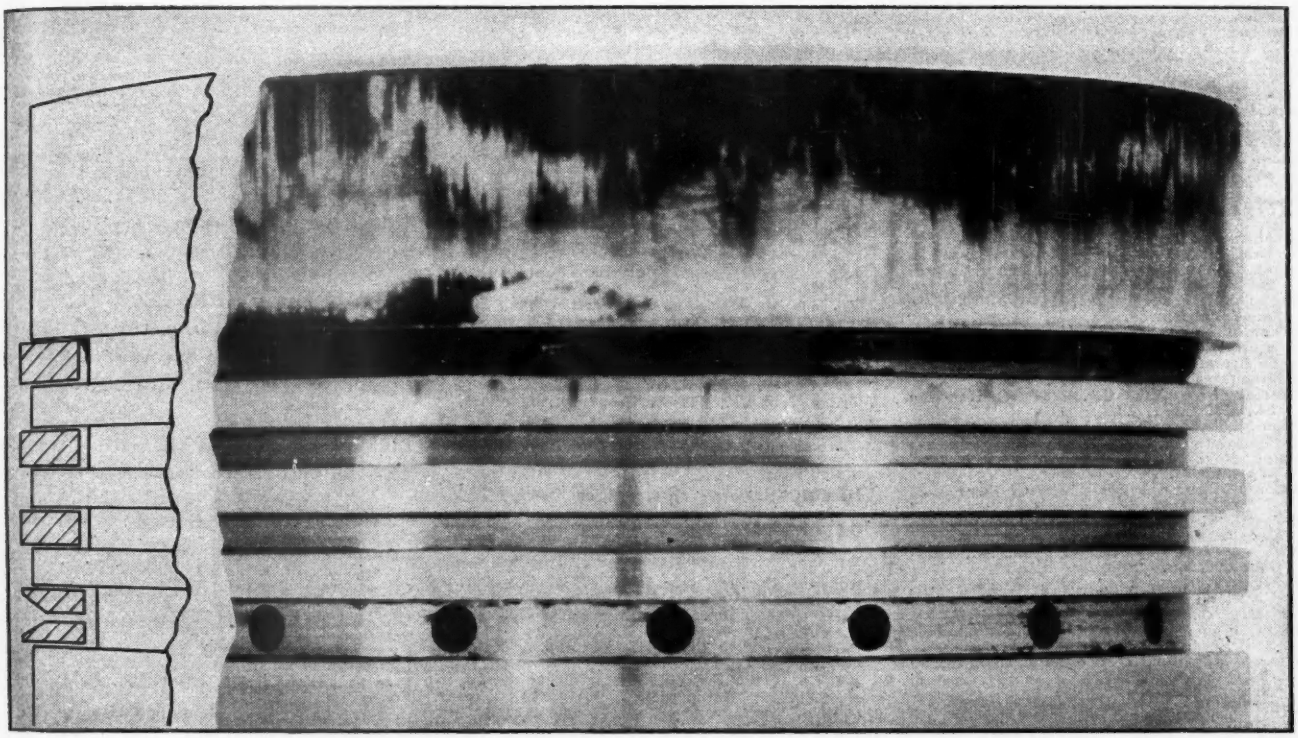


NEW SINCLAIR SUPER TENOL

CUTS MAINTENANCE COSTS IN SEVERE DUTY SERVICE

RING GROOVES

...OR LIKE THIS?



WITH NEW SUPER TENOL—This unretouched photo and drawing show how new Sinclair SUPER TENOL, in the same type of SEVERE DUTY service, cleaned out all but a small portion of the deposits shown at left. SUPER TENOL also quickly relieves valve sticking conditions, safely removes accumulated sludge and varnish deposits.

New, Sinclair SUPER TENOL has been specially developed to eliminate the high maintenance costs so frequently encountered in both types of SEVERE DUTY service:—1. High temperature, high speed, overload; and 2. Low temperature, light load, long idle, stop-and-go.

If you operate diesel-powered or gasoline equipment in either type of SEVERE DUTY service it will pay you to begin using new SUPER TENOL now—to keep equipment in operation many more days each year, to save time, labor and money.

SINCLAIR

HEAVY DUTY LUBRICANTS

Your Nearest Supplier of Sinclair Products Will Gladly Arrange Lubrication Counsel or You May Write to

SINCLAIR REFINING COMPANY, 630 FIFTH AVENUE, NEW YORK 20, N. Y.

1288-2

CUSHIONS, Seat (Rubber)—cont.

Sponge Rubber Products Co., 247 Derby Place, Shelton, Conn. "Spongex."
United States Rubber Co., U. S. Koylon Foam Div., Mishawaka, Ind. "U. S. Koylon."

CUSHIONS, Seat (Spring)

Bostrom Mfg. Co., 133 W. Oregon St., Milwaukee 4, Wis.
Fort Pitt Mfg. Co., 1501 Preble Ave., N. S., Pittsburgh 12, Pa.
Goshen Cushion & Body Co., N. Second St., Goshen, Ind. "Better Built."
Jacobs Co., F. L., 1043 Spruce St., Detroit 1, Mich.
McInerney Spring & Wire Co., 655 Godfrey Ave., Grand Rapids, Mich. "Travel Comfort."
Perma Products Co., 7001 Morgan Ave., Cleveland 4, Ohio.
Sagless Auto Seat Co., 3000 S. Archer Ave., Chicago 8, Ill. "Sagless," "Serv-U." (For trucks.)
Young Spring & Wire Corp., L. A., 9200 Russell St., Detroit 11, Mich.

CUTTERS, Tubing (Hand)

Armstrong Mfg. Co., 303 Knowlton St., Bridgeport 8, Conn.
Calvan Machine Products Inc., 809 S. Water St., Jackson, Mich.
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
Edelmann & Co., E., 2332 Logan Blvd., Chicago 47, Ill. "Erco." (Hand power.)
Exello Accessories Mfrs., Inc., 81 Madison Ave., Hempstead, N. Y.
Imperial Brass Mfg. Co., 1234 W. Harrison St., Chicago 7, Ill.
Kennedy Service Tools, Inc., P. O. Box 38, Mogadore, Ohio.
Landis Machine Co., Fifth & Church Sts., Waynesboro, Pa.
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
New Britain Machine Co., 140 Chestnut St., New Britain, Conn.
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn. "OTC."
Parker Appliance Co., 17325 Euclid Ave., Cleveland 12, Ohio.
Reed Mfg. Co., 1428 W. Eighth St., Erie, Pa.
Toledo Pipe Threading Machine Co., 1445 Summit Ave., Toledo 4, Ohio.
Trimont Mfg. Co., Div. of Aetna Industrial Corp., 55 Armory St. (Roxbury), Boston, Mass. "Trimo."
Truth Tool Co., 711 S. Front St., Mankato, Minn.

CYLINDER DE-GLAZERS, See De-glazers, Cylinder

CYLINDER, Liner, See Sleeves, Cylinder

CYLINDER HONES, See Hones, Cylinder

CYLINDER LUBRICATORS, See Lubricators, Upper Cylinder

CYLINDER REBORING TOOLS, See Tools, Cylinder Reboring (Portable)

CLYINDER RIDGE REAMER, See Reamers, Cylinder Ridge

DECALCOMANIAS

American Decalcomania Co., Inc., 4326 5th Ave., Chicago 24, Ill.
Ashley Quixign Co., 15330 Idaho St., Detroit, Mich.
Dicks Co., C. O., 8544 Grand River, Detroit 4, Mich.
Excello Specialty Co., 4111 E. 100 St., Cleveland 5, Ohio.
Meyercord Co., 35 E. Wacker Drive, Chicago 44, Ill.
Palm Bros. Decalcomania Co., 3736 Regent St., Cincinnati, Ohio.
Palm, Fechteler Co., 220 W. 42nd St., New York, N. Y.
Permalux Co., 500 Rathbone Ave., Aurora, Ill.

DEFROSTERS, Glass Shield

Casco Products Corp., 512 Hancock Ave., Bridgeport 2, Conn. "Casco," "Perfection."
Durkee-Atwood Co., 215 Seventh St., N. E., Minneapolis 13, Minn.
Fulton Co., 1912 S. 82nd Ave., Milwaukee 14, Wis. (Electric.)
Signal Mfg. Co., 69 Bennett St., Lynn, Mass. "Signal See Kleer."
Western Cable & Light Co., 395 Sibley St., St. Paul, Minn.
Zaiger Corp., 589 Essex St., Lynn, Mass. "Sleetchaser." (Electric.)

DEFROSTING FANS, See Fans, Defrosting

DEGASSERS, Bus and Truck

Consolidated Car-Heating, Inc., Albany, N. Y.
Fageol Co., R. D., 5725 Mt. Elliott Ave., Detroit 11, Mich.

DE-GLAZERS, Cylinder

Hastings Mfg. Co., 375 E. Mill St., Hastings, Mich.
Koppers Co., Piston Ring Dept., Bush & Hamburg Sts., Baltimore 3, Md. "Glaze-Buster."
Lisle Corp., 809 E. Main St., Clarinda, Iowa.
Storm-Vulcan Inc., 2504 Commerce St., Dallas 1, Tex.
Wilkening Mfg. Co., 2000 S. 71st St., Philadelphia 42, Pa. "Pedrick."

DEGREASERS, See Washers, Metal Parts

DEGREASING COMPOUNDS, See Solvents, Oil, Carbon and Grease Removing

DEPRESSORS, Brake Pedal

Bear Mfg. Co., 21st & Fifth Ave., Rock Island, Ill.
Eis Automotive Corp., Middletown, Conn.
Kennedy Service Tools Co., P. O. Box 38, Mogadore, Ohio.
New Britain Machine Co., 140 Chestnut St., New Haven, Conn.
Robison Air Jack Co., 2345 Jerrold Ave., San Francisco 24, Calif.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. "Blue Point."
Supco Products Corp., S. Bayview Ave., Amityville, L. I. N. Y.
Truth Tool Co., 711 S. Front St., Mankato, Minn.
Waterloo Valve Spring Compressor Co., 300 Ansborough Ave., Waterloo, Iowa. "Little Wonder."

DERRICKS, See Cranes, Service Truck

DETERGENTS, Car Washing

(See also Soap)

Advance Century Mfg. Co., P. O. Box 781, Greenville, S. C.
Atomix, Inc., Box 1126, Wilmington 99, Del. "Atolak."
Barton Products Co., 2675 St. Mary's Court, Chicago 47, Ill.
Bell Co., 411 N. Wolcott Ave., Chicago 22, Ill. "Bell's," "Flare."
Buffalo Plastic Finish Co., 152 Oak St., Buffalo, N. Y. "Brite Boy."
Cannon Chemical Co., 181 Portland St., Cambridge 41, Mass. "Dirt Buster."
Clayton Mfg. Co., 1363 Ellis Lane, El Monte, Calif.
Colorglo Products, Inc., 109 N. Newlin Ave., Whittier, Calif.
Commercial Solvents Corp., 17 E. 42nd St., New York 17, N. Y. "Nor'way."
Dacar Chemical Products Co., Wabash & McCartney Sts., Pittsburgh 20, Pa. "Gently."
Detrex Corp., 14331 Woodrow Wilson Ave., Detroit 32, Mich. "Drex-Foam."
Drew Co., E. F. 15 E. 26th St., New York, N. Y. "Ameroid."
DuBois Co., 1120 W. Front St., Cincinnati 3, Ohio. "Transit-Kleen."
du Pont de Nemours & Co., E. I., Chemical Specialties Div., Wilmington, Del. "No. 7."
Harley Soap Co., Pierce & Orthodox Sts., Philadelphia 37, Pa. "Harco."
Hollingshead Corp., R. M., 840 Cooper St., Camden, N. J. "Whiz."
Industrial Chemical Products Co., 3769 Bellevue Ave., Detroit 7, Mich. "Tresbon."
International Metal Polish Co., 1910 Quill St., Cambridge 42, Mass. "Blue Ribbon."
Jones Products, Inc., 276 Third St., Cambridge 42, Mass. "X-100."
Kelite Products, Inc., 909 W. 60th St., Los Angeles, Calif.
Lavo Co. of America, 300 N. Seventh St., Milwaukee 3, Wis.
Lusk Co., C. F., 5918 Bonna Ave., Cleveland, Ohio.
Mac's Super Gloss Co., N. Figueroa St., Los Angeles 42, Calif.
Magnus Chemical Co., 185 South Ave., Garwood, N. J.
Magnuson Products Corp., 50 Court St., Brooklyn, N. Y. "Permag."
Master Specialty Co., 3016 E. Lake St., Minneapolis 6, Minn. "Wash-Master."
Miller Mfg. Co., 1100 N. 32nd St., Camden, N. J. "Wonder Weld."
Motor Kool Products Co., 505 Buttles Ave., Columbus 8, Ohio. "M-K Washrite."
Oakite Products, Inc., 22 Thames St., New York 6, N. Y.
Oil-Dri Corp., 520 N. Michigan Ave., Chicago 11, Ill. "Uncle Nick's Car Wash."
Penetone Co., 74 Hudson Ave., Tenafly, N. J. "Penesolve."
Permo Products Co., 1629 Platte St., Denver 2, Colo.
Publicker Industries, Inc., 1429 Walnut St., Philadelphia 2, Pa. "Thermo Foam."
Service Industries, 2103 E. Somerset St., Philadelphia 34, Pa. "PN 700."
Service Supply Co., 1115 Seventh St., Denver, Colo. "Shamo."
Shur-Gloss Mfg. Co., 3555 W. Grand Ave., Chicago 51, Ill. "Shur Wonder-Wash."
Socony-Vacuum Oil Co., 26 Broadway, New York 4, N. Y. "Sovasuds Car Wash."
Speco, Inc., 7308 Associate Ave., Cleveland 9, Ohio.
Stanley Co., John T., 642 W. 30th St., New York 1, N. Y. "Mobo," "Protol."
Tudor Chemical Specialties, Inc., 229 W. 179th St., New York 53, N. Y. "Quickee."
Tumbler Laboratories, J. A., 423 S. Hanover St., Baltimore 1, Md.
Turco Products, Inc., 6135 S. Central Ave., Los Angeles 1, Calif.
U. S. Chemical & Supply Co., 1424 McGee St., Kansas City 6, Mo. "Z-4."
Watts-Wagner Co., 113 Frelinghuysen Ave., Newark 5, N. J.
Wilco Co., 4425 Bandini Blvd., Los Angeles 23, Calif.
Wyandotte Chemicals Corp., J. B. Ford Div., Wyandotte, Mich.
"X" Laboratories, Inc., 25 W. 45th St., New York 19, N. Y. "X-Karwash."

DIAL GAGES, See Gages, Dial

DIESEL ENGINES, See Engines, Diesel

DIESEL ENGINE FUEL FILTERS, See Filters, Diesel Fuel

DIESEL FUEL

American Oil Co., American Bldg., Baltimore, Md.
Associated Division, Tide Water Associated Oil Co., 79 New Montgomery St., San Francisco, Calif.
Atlantic Refining Co., 260 S. Broad St., Philadelphia, Pa.
Cities Service Oil Co., 70 Pine St., New York 5, N. Y.
Continental Oil Co., Continental Oil Bldg., Ponca City Okla.
Emerol Mfg. Co., 242 W. 69th St., New York, N. Y.
Esso Standard Oil Co., Esso Bldg., 15 W. 51st St., New York, N. Y.
Gulf Oil Corp., Gulf Building, Pittsburgh, Pa.
Phillipps Petroleum Co., Bartlesville, Okla.
Pure Oil Co., The, 35 E. Wacker Drive, Chicago 1, Ill.
Richfield Oil Corp., Richfield Bldg., 555 S. Flower St., Los Angeles 13, Calif.
Shell Oil Co., Shell Bldg., San Francisco, Calif.
Shell Oil Co., 50 W. 50th St., New York 20, N. Y.
Sinclair Refining Co., 630 Fifth Ave., New York 20, N. Y.
Socony Vacuum Oil Co., 26 Broadway, New York 4, N. Y.
Standard Oil Co. of California, Standard Oil Bldg., San Francisco, Calif.
Standard Oil Co. (Indiana), 910 S. Michigan St., Chicago 80, Ill.
Sun Oil Co., Marcus Hook, Pa.
Texas Co., The, 135 E. 42nd St., New York 17, N. Y.
Tide Water Associated Oil Co., 17 Battery Place, New York, N. Y.
Union Oil Co. of California, Wilmington, Calif.

DIESEL INJECTOR EQUIPMENT, See Injector Systems, Gasoline & Diesel Engine

DIFFERENTIAL CLEANERS, See Flushers, Differential and Transmission

DIFFERENTIALS

Automotive Gear Works, Inc., Eighth & S. O Sts., Richmond, Ind. "Double Diamond."
Cook Bros. Equipment Co., 3330 San Fernando Rd., Los Angeles 41, Calif. (Chain drive.)
Detroit Automotive Products Corp., 8701 Grinnell Ave., Detroit 13, Mich. "No Spin." (Automatic locking for trucks.)
Detroit Bevel Gear Co., 8130 Jos. Campau Ave., Detroit 11, Mich.
Fairfield Mfg. Co., Wallace Ave. & Belt R. R., Lafayette, Ind.
Gear & Forge Div. of Clark Equipment Co., Horton & Tyson Sts., Jackson, Mich. (Truck.)
New Process Gear Co., 500 Plum St., Syracuse, N. Y.
Warren Gear Mfg. Co., Warren, Pa.

DIRECTIONAL SIGNAL SWITCHES, See Switches, Direction Indicating Signal

WHITEHEAD & KALES

USE

SHULER AXLES

THERE ARE NO BETTER AXLES, AT ANY PRICE!

SHULER AXLE COMPANY, Inc.
Louisville, Kentucky

Since 1915, Manufacturers of: One-Piece Tubular and Square Trailer Axles, Front Axles, Machinery Trailer Axles, Machinery Front Axles, Front-Steer Trailing Axles, Heavy-Duty Brakes (Mechanical, Vacuum and Air), House Trailer Axles, Miscellaneous Forgings for Heavy-Duty Trucks and Trailers.

DETROIT OFFICE: 18954 James Couzens Highway • CHICAGO OFFICE: 854 Chicago Ave., Evanston
DALLAS OFFICE: 3402 McFarlin Blvd. • EXPORT DIVISION: 38 Pearl St., New York
WEST COAST WAREHOUSE: 1280 Forty-Fifth St., Oakland

DIRECTIONAL SIGNALS, See Signals, Direction Indicating

DISCS, Abrasive Grinding

Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa. "Sioux."
Armour Sandpaper Works, 1355 W. 31st St., Chicago, Ill. "Alundun."
Behr-Manning Corp., Troy, N. Y. "Metalite," "Speed-Wet Metalite."
Besley & Co., Chas. H., 118 N. Clinton St., Chicago 6, Ill. "Besly-Titan."
Carborundum Co., Buffalo Ave., Niagara Falls, N. Y.
Clover Mfg. Co., Norwalk, Conn.
Gardner Machine Co., 444 E. Gardner St., Beloit, Wis.
Mid-West Abrasive Co., 510 S. Washington St., Owosso, Mich.
Raybestos-Manhattan, Inc., Manhattan Rubber Div., 61 Willet St., Passaic, N. J. "Manhattan."

DISPENSERS, GREASE, See Lubricators, Portable (High Pressure)

DISSIPATORS, Energy (Brake Auxiliary)

Warner Electric Brake Mfg. Co., P. O. Box 620, Beloit, Wis.

DISTRIBUTOR PARTS, See Parts, Magneto, Coil and Distributor

DISTRIBUTORS, Ignition

Delco-Remy Div. General Motors Corp., Anderson, Ind.
Electric Auto-Lite Co., Toledo 1, Ohio. "Auto-Lite."
Freedco Products, Inc., 154 Nassau St., New York, N. Y.

Holley Carburetor Co., 5930 Vancouver Ave., Detroit 4, Mich.
Mallory Electric Corp., Cloverdale & Fullerton Aves., Detroit 4, Mich. (Also combination governor and distributor.)
Shurhit Products Inc., Waukegan, Ill.

DISTRIBUTOR TESTING INSTRUMENTS, See Instruments, Distributor Testing

DOLLIES, Axle

Curtiss & Smith Mfg. Co., 900 Water St., Pottstown, Pa.
Saginaw Products Corp., 68 Williamson St., Saginaw, Mich. (Trailer.)

DOLLIES, Truck Wheel

Electric Service Mfg. Co., 17 & Cambria Sts., Philadelphia 32, Pa. "Peerless."
Globe Hoist Co., E. Mermaid Lane & Queen St., Philadelphia 18, Pa.
Immel Co., 502 N. Vermilion, Streator, Ill.
Miller Mfg. Co., 5919 Tireman Ave., Detroit 4, Mich.
Nutting Truck & Caster Co., 1125 W. Division St., Faribault, Minn.
Rush Mfg. Co., E. S., 499 San Fernando Rd., Los Angeles 3, Calif.
Schildmeier Co., H. C., 312 N. Senate Ave., Indianapolis 2, Ind. "Seal Line."
Wats Mfg. Enterprises, 7400 N. E. Second Ave., Miami 38, Fla.
Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill.

DRAINERS, Crankcase Oil (Portable)

Choldum Mfg. Corp., 169 East St., New Haven, Conn.
Gray Co., 60 11th Ave.; N.E., Minneapolis 13, Minn. "Graco Oil-Evac."
Quick Charge, Inc., 1750 N. E. Tenth St., Oklahoma City 4, Okla. "Quick-Lube."

DRAIN PLUGS, Crankcase

Agner Simplex Co., 106 Pine St., Burlington, Wis. "Simplex."
Champ-Items, Inc., 6191 Maple Ave., St. Louis, Mo. (Oversize.)
Dorman Products, Inc., 1004 Sycamore St., Cincinnati 2, Ohio.
Hill Nut Co., 2620 W. Flournoy St., Chicago 12, Ill.
Houser Engng. & Mfg. Co., Bluffton, Ind. (Oversize.)
Lisle Corp., 809 E. Main St., Clarinda, Iowa (Magnetic.)
Magnetic Drain Plug Co., 305 Frederick Bldg., Cleveland 15, Ohio. (Magnetic.)
U. S. Plug & Fitting Co., 1807 22nd St., N. E., Canton 5, Ohio. (Magnetic.)
Universal Lubricating Systems, Inc. 747 Allegheny Ave., Oakmont, Pa. (Oversize.)
Wennett-Gordon Mfg. Co., 35 India St., Boston, Mass. "Wengo." (Oversize.)

DRESSERS, Grinding Wheel

Acme Diamond Tool Co., 15 Maiden Lane, New York 7, N. Y.
Apex Tool & Stamping Corp., 819 Fehr Ave., Louisville 4, Ky.
Atkins & Co., E. C., 402 S. Illinois St., Indianapolis 9, Ind.
Carboloy Co., 11189 E. Eight Mile Drive, Detroit 32, Mich.
Desmond-Stephan Mfg. Co., 317 S. Walnut St., Urbana, Ohio.
Dessau Co., Maurice S., 535 Fifth Ave., New York 17, N. Y.
Diamond Drill Carbon Co., 53 Park Row, New York, N. Y.
Hanchett Mfg. Co., 906 N. State St., Big Rapids, Mich. "Wolverine."
Ideal Industries, Inc., 1014 Park Ave., Sycamore, Ill.
Industrial Abrasives, Inc., 3418 N. Knox St., Chicago 41, Ill. "Super-Cut." (Diamond.)
Industrial Diamond Co., 7 Avalon St., Detroit 3, Mich.
J. & S. Tool Co., 477 Main St., East Orange, N. J. "Fluidmotion."
Koebel Diamond Tool Co., 9456 Grinnel Ave., Detroit 13, Mich. "Koebelite." (Diamond.)
Lee Co., K. O., Congress at First Ave., S. E., Aberdeen, S. D. "Knock Out."
Moore Special Tool Co., 740 Union Ave., Bridgeport, Conn.
Rinck-McIlwaine, Inc., 16 Hudson St., New York 13, N. Y. "Rimac."
Ross Mfg. Co., 6210 Carnegie Ave., Cleveland 3, Ohio.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. "Blue Point."
Standard Diamond Tool Corp., 64 W. 48th St., New York, N. Y.
Standard Tool Co., 6900 Central Ave., Cleveland, Ohio. "Shield Brand."
Vincent Steel Process Co., 2424 Bellevue Ave., Detroit 7, Mich.
Vinco Corp., 9111 Schaeffer Highway, Detroit 28, Mich.

DRILL GRINDERS, See Grinder, Drill

DRILL PRESSES

Atlas Press Co., 1842 N. Pitcher St., Kalamazoo 13D, Mich.
Boice-Crane Co., 930 W. Central Ave., Toledo 6, Ohio.
Buffalo Forge Co., 490 Broadway, Buffalo 5, N. Y.
Canedy-Otto Mfg. Co., Main St. & East End Ave., Chicago Heights, Ill.
Dumore Co., 14th & Racine Sts., Racine, Wis.
Seneca Falls Machine Co., 314 Fall St., Seneca Falls, N. Y.
South Bend Lathe Works, 342 E. Madison St., South Bend 22, Ind.
Taylor & Fenn Co., 54 Arch St., Hartford 1, Conn.
Walker-Turner Div., Kearney & Trecker Corp., 639 South Ave., Plainfield, N. J.

DRILLS, Portable Electric

Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa. "Sioux."
Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.
Bradford Machine Tool Co., 657 Evans St., Cincinnati 4, Ohio. "Metalmaster."
Chicago Pneumatic Tool Co., 6 E. 44th St., New York, N. Y. "Hicycle."
Cincinnati Electrical Tool Co., 2699 Madison Rd., Cincinnati 8, Ohio.
Cummins Portable Tools, 4740 W. Ravenswood Ave., Chicago 40, Ill.
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
Independent Pneumatic Tool Co., 175 State St., Aurora, Ill. "Thor."
Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y.
Jones Motorola Corp., 432 Fairfield Ave., Stamford, Conn.
Lee Co., K. O., Congress at First Ave., S. E., Aberdeen, S. D. "Knock-Out."
Louisville Electric Mfg. Co., 3008 Magazine St., Louisville, Ky. "Pioneer."
Millers Falls Co., Greenfield, Mass.
Milwaukee Electric Tool Co., 5316 W. State St., Milwaukee 8 Wis.
Misener Mfg. Co., 202 Walton St., Syracuse 2, N. Y.
Portable Elec. Tools, Inc., 255 W. 79th St., Chicago 20, Ill.
Precision Electric Tool & Mfg. Co., 98 Union St., Worcester 8, Mass.
Signal Electric Mfg. Co., Menominee, Mich.
Skilsaw, Inc., 5033 Elston Ave., Chicago 30, Ill. "SkilDrill."
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.
Speedway Mfg. Co., 1834 S. 52nd Ave., Cicero 30, Ill.
Stanley Electric Tool Div. of Stanley Works, 480 Myrtle St., New Britain, Conn.
Syntron Co., 495 N. Lexington Ave., Homer City, Pa.
United States Electrical Tool Co., 1050 Findlay St., Cincinnati 14, Ohio. "U. S."
Van Dorn Electric Tools, Towson 4, Md. "Holgun."
Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K. R. W."

DRILLS, Portable Pneumatic

Aro Equipment Corp., Bryan, Ohio.
Buckeye Tools Corp., 29 W. Apple St., Dayton 1, Ohio.
Cleveland Pneumatic Tool Co., 3781 E. 77th St., Cleveland, Ohio. "Cleco."
Ideal Industries, Inc., 1014 Park Ave., Sycamore, Ill. "Ideal Air Horse."
Independent Pneumatic Tool Co., 175 State St., Aurora, Ill. "Thor."
Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y.
Keller Tool Co., 1333 Fulton St., Grand Haven, Mich.
Rotor Tool Co., 17325 Euclid Ave., Cleveland 12, Ohio.

DRILLS, Twist

Ampco Twist Drill Co., 811 Belden St., Jackson, Mich.
Chicago-Latrobe Twist Drill Works, Div. of United Drill & Tool Corp., 411 W. Ontario St., Chicago 10, Ill. "Double Circle."
Chicago Tool & Kit Mfg. Co., 667 W. Randolph St., Chicago 6, Ill.
Clark Equipment Co., Buchanan, Mich. "Celfor."
Cleveland Twist Drill Co., 1242 E. 49th St., Cleveland, Ohio. "Cle-Forge."
Cogsdill Twist Drill Co., 12950 W. Eight Mile Rd., Detroit 21, Mich. "Black Panther," "Mercury."
Detroit Reamer & Tool Co., 2830 E. Seven Mile Road, Detroit 12, Mich. "D.R.&T."
Greenfield Tap & Die Corp., Sanderson St., Greenfield, Mass. "GTD."
Keystone Reamer & Tool Co., Millersburg, Pa.
Morse Twist Drill & Machine Co., 163 Pleasant St., New Bedford, Mass.
National Twist Drill & Tool Co., Rochester, Mich.
New Britain Machine Co., 140 Chestnut St., New Britain, Conn.
Pratt & Whitney, Div. Niles-Bement-Pond Co., Charter Oak Blvd., West Hartford 1, Conn.
Rex-Hide Brake Lining Co., 67 Glenwood Pl. East Orange, N. J.
Standard Tool Co., 6900 Central Ave., Cleveland 4, Ohio. "Shield Brand."
Union Twist Drill Co., Monroe St., Athol, Mass.
Wendt-Sonis Co., Hannibal, Md. "W.-S." (Carbide tipped.)
Wesson Co., 12200 Woodward Heights Blvd., Ferndale 20, Mich.
Whitman & Barnes, Div. of United Drill & Tool Corp., Plymouth, Mich. "Blue Diamond," "Hercules."
Willey's Carbide Tool Co., 1340 W. Vernor Highway, Detroit 1, Mich.

DRIVERS, Bushing

Alvord-Polk Tool Co., 110 Gearhardt St., Millersburg, Pa. "Alpo." (Sets.)
Bonney Forge & Tool Works, Tilghman & Meadow Sts., Allentown, Pa.
Calvan Machine Products, Inc., 801 S. Water St., Jackson, Mich.
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
Hunt Mfg. Co., Geo. L., 1030 Wisconsin Ave., Boscobel, Wis.
Indestro Mfg. Co., 2649 N. Kilare Ave., Chicago, Ill.
Mechanics Tool & Forge Co., Howard St., Sabina 1, Ohio. "Mac."
Miller Co., L. B., 394 State St., Stamford, Conn.
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.

You get all three in STEEL-VENT

Steel-Vent is a "wet" ring. Its greater surface area helps give it greater oil-carrying capacity, and its exclusive construction lets it carry this extra oil right to the cylinder wall.

Steel-Vent keeps oil always under control with patented features that give it high unit pressure with lower total tension. More-than-ample drainage capacity handles the extra oil easily.

Steel-Vent can't clog. Its side-opening spacer operates against a moving segment with a breathing action that automatically cleanses itself of carbon and gum accumulations.

★ ★ ★

These are three important reasons why Steel-Vent means longer service life in any job—rering or rebore.

HASTINGS MANUFACTURING COMPANY • HASTINGS, MICHIGAN • HASTINGS LTD., TORONTO

PISTON RING HANDBOOK
New, complete, authoritative. Ask your jobber salesman or write direct for your free copy.

HASTINGS

STEEL-VENT PISTON RINGS

TOUGH *on Oil-Pumping*
GENTLE *on Cylinder Walls*

U.S. PAT. 2,148,997

DRIVERS, Bushing—cont.

Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn. "OTC."
Zoerman-Clark Mfg. Co., Jackson, Mich.

DRUMS, Brake

Al-Fin Div., Fairchild Engine & Airplane Corp., Farmingdale, L. I., N. Y. (Aluminum fins bonded to cast iron.)
Budd Co., Wheel Div., 12141 E. Charlevoix Ave., Detroit 14, Mich. (Combination iron and steel.)
Campbell, Wyant & Cannon Foundry Co., Muskegon, Mich. "Cannonite." (Sand cast.)
Copperweld Steel Co., Glassport Div., Glassport Pa. (Pressed steel with copper fins.)
Crosby Co., 183 Pratt St., Buffalo, N. Y. (Pressed steel.)
Dail Steel Products Co., Main & Hosmer Sts., Lansing, Mich. (Pressed steel.)
Dayton Steel Foundry Co., 1366 Miami Chapel Rd., Dayton, Ohio.
Erie Malleable Iron Co. (Automotive Wheel Div.), 609 W. 12th St., Erie, Pa. (Cast alloyed iron.)
Frank Foundries Corp., 2020 Third St., Moline, Ill. "Frankite."
Gunite Foundries Corp., 302 Peoples Ave., Rockford, Ill.
Hunt-Spiller Mfg. Corp., 383 Dorcester Ave., South Boston 27, Mass. "Hunt-Spiller Air Furnace Gun Iron." (For buses or trucks.)
Kay-Brunner Steel Products, Inc., 999 Meridian Ave., Alhambra, Cal. "Kaloy." (For trucks and trailers.)
Kelsey-Hayes Wheel Co., 3600 Military Ave., Detroit 32, Mich. (Composite iron and steel.)
Lansing Stamping Co., So. Penn Ave., Lansing, Mich. (Pressed steel.)
Motor Castings Co., 1323 S. 65th St., West Allis, Wis.
Powell Pressed Steel Co., Hubbard, Ohio. (Pressed steel.)
Reynolds Mfg. Co., 600 Prospect Ave., Springfield, Mo. "Reyco." (Specially alloyed iron.)
Shuler Axle Co., 2901 S. Second St., Louisville 8, Ky. (Specially alloyed iron.)
Transue & Williams Steel Forging Corp., 600 Ely St., Alliance, Ohio. (Pressed steel.)

DRYING LAMPS, See Lamps, Drying, Baking and Heating

DYNAMOMETERS, Chassis Testing

Clayton Mfg. Co., 1363 Ellis Lane, El Monte, Calif. "Clayton Vehicle Analyzer." (Hydraulic.)
Mid-West Dynamometer & Engineering Co., 3100 River Rd., River Grove. Ill. (Electric and hydraulic.)
Otis Elevator Co., 260 11th Ave., New York 1, N. Y. "Otis Proving Stand."
Safety Equipment Co., 1005 S. La Fayette Blvd., South Bend 18, Ind. (Bennett-Feragen equipment for safety.)

DYNAMOMETERS, Engine Testing

Clayborne Mfg. Co., 3234 W. 31 St., Chicago 23, Ill.
Clayton Mfg. Co., 1363 Ellis Lane, El Monte, Calif. (Hydraulic.) ("Clayton Vehicle analyzer.")
Dynamatic Corp., 3307 14th Ave., Kenosha, Wis.
General Electric Co., 1 River Rd., Schenectady 5, N. Y. (Electric.)
Mid-West Dynamometer & Engineering Co., 3100 River Rd., River Grove, Ill. (Electric and hydraulic.)
Taylor Dynamometer & Machine Co., 5108 W. Center St., Milwaukee 10, Wis. "Hi-Eff."
Toledo Scale Co., Telegraph Rd., Toledo 12, Ohio.
Westinghouse Electric Corp., 306 Fourth Ave., Pittsburgh 30, Pa.

ELECTRODES, Welding, See Rods, Welding

ELECTROLYTE, Battery Acid

American Cyanamid Co., 30 Rockefeller Plaza, New York 20, N. Y. "Aero Brand."
du Pont de Nemours & Co., E. I., Grasselli Chemicals Dept., Wilmington, Del.
Gould Storage Battery Co., Trenton, N. J.

EMERY CLOTH, See Sandpaper

ENAMELS (Synthetic Resin Base)

(See also Lacquers)

Acme White Lead & Color Works, 8250 St. Aubin Ave., Detroit 11, Mich. "Fleet-X."
Akron Paint & Varnish Co., 1390 Firestone Parkway, Akron 1, Ohio. "Bexco."
American Lacquer Solvents Co., Perkiomen Junction, Phoenixville, Pa. "Quix."
American Paint Co., 902 Larabee St., Chicago 10, Ill. "Dalax."
American Varnish Co., 1138 N. Branch St., Chicago 22, Ill. "American," "Artspar."
Arco Co., 7301 Bessemer Ave., Cleveland 4, Ohio. "Synite."
Armite Laboratories, 1900 E. 65th St., Los Angeles 1, Calif.
Automotive Finishes, Inc., P. O. Box 457, Northwestern Station, Detroit 4, Mich. "Fleet-Lux."
Baer Bros., 438 W. 37th St., New York, N. Y.
Baltimore Paint & Color Works, 148 S. Calverton Rd., Baltimore, Md.
Beckwith-Chandler Co., Delancey & Rutherford Sts., Newark, N. J. "B/C," "Bexolin," "Glosset."
Berry Bros., 211 Lieb St., Detroit, Mich. "Amberry."
Bownes Co., Frank, 305 Eastern Ave., Chelsea, Mass.
Briggs Mfg. Co., Refinishing Materials Div., 3001 Miller St., Detroit 11, Mich.
Brown Co., Andrew, 5400 District Blvd., Los Angeles 22, Calif. "Synflex."
Campbell Paint & Varnish Co., Div. Glidden Co., 106 Gratiot St., St. Louis 2, Mo. "Glidden Quality."
Ditzler Color Div., Pittsburgh Plate Glass Co., 8000 W. Chicago Ave., Detroit 4, Mich. "Ditzco."
Donahue Varnish Co., F. J., 10586 Knodell Ave., Detroit, Mich. "Don-A-Lac."
Finch, Ltd., Leon, 728 E. 59th St., Los Angles 1, Calif. "Ply-O-Syn," "Spra-Rite." "Leosyn."
Flood & Conklin Co., 132 Chestnut St., Newark 5, N. J.
Forbes Finishes Div., Pittsburgh Plate Glass Co., 3800 W. 143rd St., Cleveland 11, Ohio. "Synco," "Raybake."
Frost Paint & Oil Corp., 1209 Tyler St., N. E., Minneapolis 13, Minn. "Frostex."
Glidden Co., 11001 Madison Ave., Cleveland, Ohio.
Heath & Milligan Mfg. Co., S. Normal Ave., Chicago, Ill. "Dependable."
Hilo Varnish Corp., 54 Stewart Ave., Brooklyn 6, N. Y.
Illinois Bronze Powder Co., 2015 S. Clark St., Chicago, Ill. "Illbronze."
Interchemical Corp., Finishes Div., 57 State St., Newark 1, N. J. "Auflex," "Aultex," Polymerin," "Polymeroid," "Polymex," "Vichrome."
International Metal Polish Co., 1910 Quill St., Indianapolis, Ind. "Blue Ribbon."
Kay & Ess Co., Leo & Kiser Sts., Dayton, Ohio. "Syndur."
Lucas & Co., John, 1617 Pennsylvania Blvd., Philadelphia 3, Pa. "Lucoflint."
McDougall-Butler Co., 6 Evans St., Buffalo 5, N. Y.
Martin-Senour Co., 2520 Quarry St., Chicago 8, Ill. "Synthol."
Midland Paint & Varnish Co., 9115 Reno Ave., Cleveland 5, Ohio. "Hyspar."
Morris Paint & Varnish Co., 1823 Washington Ave., St. Louis 3, Mo. "Morlux," "Morris."
Nason & Co., R. N., 151 Potrero Ave., San Francisco, Calif. "Glyko."
Oxidermo Products, Inc., Springport. Mich.
Pittsburgh Plate Glass Co., Paint Div., 2000 Grant Bldg., Pittsburgh 19, Pa. "Lavax."
Plastic-Kote, Inc., 425 Lakeside Ave., N. W., Cleveland 13, Ohio.
Pratt & Lambert, Inc., 75 Tonawanda St., Buffalo 7, N. Y. "Vitralex."
Rinshed-Mason Co., 5935 Milford St., Detroit 10, Mich. "Permax."
Sewall Paint & Varnish Co., 1009 W. Eighth St., Kansas City, Mo. "Dural."
Sherwin-Williams Co., 101 Prospect Ave., N. W., Cleveland 1, Ohio. "Kem."
Standard Varnish Works, 2600 Richmond Terrace, Staten Island 3, N. Y. "Rocklaid," "Stantox."
Steelcote Mfg. Co., 3418 Gratiot Ave., St. Louis 3, Mo.
Testor Chemical Co., 2305 Charles St., Rockford, Ill. "Testor's."
United Chromium, Inc., 51 E. 42nd St., New York 17, N. Y. "Unichrom."
V.E.P. Co., 440 E. Lafayette Ave., Detroit 26, Mich. "Ve-Kote."
Valentine & Co., 11 E. 36th St., New York 16, N. Y. "Valenite."
Vita-Var Corp., 46 Albert Ave., Newark, N. J. "Vita-Lux."
Vulcan Varnish Co., 1108 W. Main St., Louisville, Ky.
W. & W. Auto Finishes, Inc., United Bldg., Greenleaf St., Boston 15, Mass. "Rust-O-Namel."
Willey Div.-Sun Chemical Corp., C. A., 100 Sixth Ave., New York 13, N. Y. "Berkley," "Speedspray."
Woolsey Paint & Color Co., C. A., 229 E. 42nd St., New York, N. Y.
Zapon Div., Atlas Powder Co., Ludlow St., Stamford, Conn. (Also "Zapon Izarine" spray finish.)

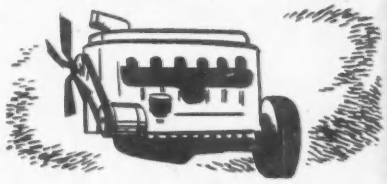
ENGINE SHUT-OFF (Automatic)

(Shuts off engine in case of low oil pressure, overheating and overturning)

Frank W. Murphy, Tulsa, Okla.
M-U Switch Corp., Canton, Mass.
Reynolds Electric Co., 2650 W. Congress St., Chicago, Ill.
Synchro-Start Products, Inc., 1046 W. Fullerton St., Chicago, Ill.
Viking Instrument Co., East Haddam, Conn.

ENGINES, Diesel (Truck and Bus)

Buda Co., 154th St. & Commercial Ave., Harvey, Ill. "Buda," "Buda Lanova."
Continental Motors Corp., Muskegon 82, Mich. "Red Seal."
Cummins Engine Co., Fifth & Wilson Sts., Columbus, Ind.
Detroit Diesel Engine Div., General Motors Corp., 13400 W. Outer Drive, Detroit 28, Mich.
Harnischfeger Corp., P & H Diesel Engine Div., 100 Lake St., Port Washington, Wis.
Hercules Motors Corp., 101 11th St., S. E., Canton 2, Ohio.
Mack Mfg. Corp., Empire State Bldg., 350 Fifth Ave., New York 1, N. Y.
Waukesha Motor Co., 960 St. Paul Ave., Waukesha, Wis. (Truck.)



ENGINES, Small (Gasoline)

Briggs & Stratton Corp., 2711 N. 13th St., Milwaukee 1, Wis. (4-cycle air-cooled.)
Clinton Machine Co., Clinton, Mich.
Continental Motors Corp., Muskegon 82, Mich.
Cushman Motor Works, Inc., 920 N. 21st St., Lincoln, Neb.
Frazer Farm Equipment Co., Sixth & Ogonts Sts., York, Pa.
Gladden Products Corp., 635 W. Colorado Blvd., Glendale 4, Calif. "Busy Bee."
Homelite Corp., Port Chester, N. Y.
International Harvester Co., Harvester Bldg., 180 W. Michigan Ave., Chicago 1, Ill.
Lauson Co., 1604 Michigan St., New Holstein, Wis.
McCulloch Motors Corp., 6101 W. Century Blvd., Los Angeles 45, Calif.
Novo Engine Co., 702 Porter St., Lansing 5, Mich.
Universal Motor Co., 425 Universal Drive, Oshkosh, Wis.
Waukesha Motor Co., 960 St. Paul Ave., Waukesha, Wis.
Wisconsin Motor Corp., 1910 S. 53rd St., Milwaukee 14, Wis.

ENGINES, Truck and Bus (Gasoline)

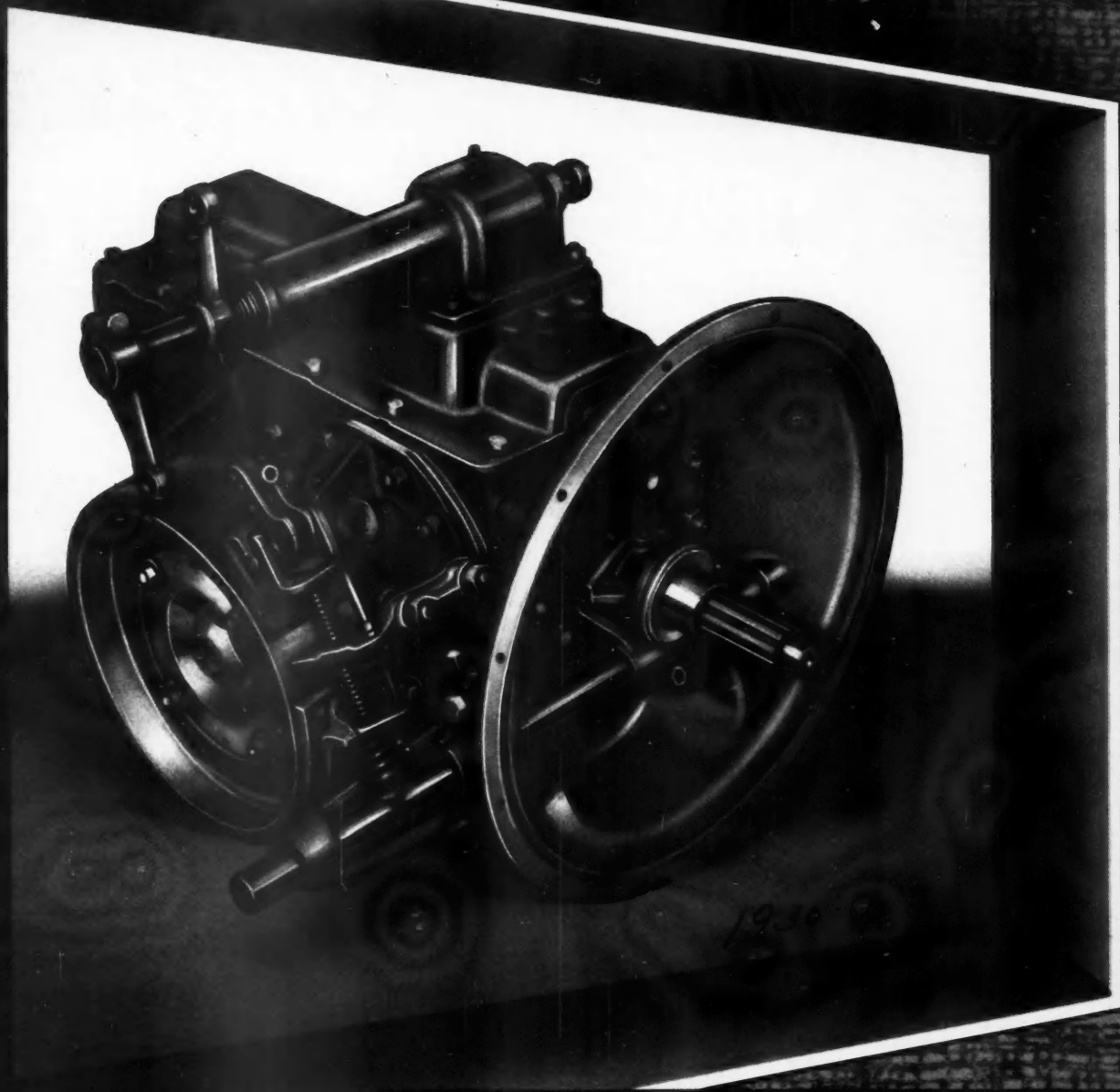
(Covering engine manufacturers only.)

Aircooled Motors, Inc., Liverpool Rd., Syracuse 8, N. Y. "Franklin."
Brennan Motor Mfg. Co., 500 E. Water St., Syracuse, N. Y.
Buda Co., 154th St. & Commercial Ave., Harvey, Ill.
Continental Motors Corp., Muskegon 82, Mich. "Red Seal."
Fageol Products Co., 789 Stow St., Kent, Ohio.
Hall-Scott Motor Div. of ACF-Brill Motors Co., 2850 Seventh St., Berkeley 10, Calif.
Hercules Motors Corp., 101 11th St., S. E., Canton 2, Ohio.
Le Roi Co., 1706 S. 68th St., Milwaukee 14, Wis.
Waukesha Motor Co., 960 St. Paul Ave., Waukesha, Wis.

EXHAUST GAS REMOVING SYSTEMS

Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
National System of Garage Ventilation, 318 N. Church St., Decatur, Ill.

EXHAUST PIPES, See Pipes, Tail and Exhaust



Strength . . . Balance . . . Dependability

CLARK Transmissions

FOR TRUCKS, BUSSES AND TRACTORS

CLARK EQUIPMENT COMPANY BUCHANAN, MICHIGAN

BATTLE CREEK JACKSON

SEE OTHER SIDE . . . . . .

MATERIAL HANDLING *News*

How Morgan Packing Company Curbed Climbing Costs

Practically any business that manufactures or handles materials can profitably take note of the smooth, simple, systematized production routine employed in the model food-cannery of the Morgan Packing Company of Austin, Indiana. Designed for a year-'round work schedule, the method is also completely flexible to accommodate the inevitable "peak" demands when fruit and vegetable crops *must be packed NOW*.

Speed is the keynote, especially during peak operations—not a confused, wasteful "haste," but a natural, orderly acceleration of sound and efficient methods of handling day-by-day production at minimum cost. And the basic, dynamic, indispensable element in the system is a fleet of Clark fork-lift trucks that handles all incoming materials and finished pack.

100-lb. bags, 24 on a pallet, are tiered four-high in the warehouse by the Clark—displacing the slow costly "bucket-brigade" method

Loading cases of canned goods for delivery, direct from storage—a natural and easy fork-truck job

Immediate benefits realized by Morgan include a sharp up-turn in productive and storage capacities, virtual elimination of accidents to personnel and damage to merchandise, and a big cut in production costs.

It is time well invested to examine your own handling operations—to discover if these same important opportunities for substantial economies may not be waiting to be realized. There's a simple way to go about it—CONSULT CLARK.

Neat, orderly modern storage, using air rights, is possible only with modern handling methods—and makes big savings

CLARK ELECTRIC AND GAS POWERED **FORK TRUCKS** AND INDUSTRIAL TOWING TRACTORS

INDUSTRIAL TRUCK DIV., CLARK EQUIPMENT COMPANY BATTLE CREEK 68, MICH.
REPRESENTATIVES IN PRINCIPAL CITIES THROUGHOUT THE WORLD
AUTHORIZED CLARK INDUSTRIAL TRUCK PARTS AND SERVICE STATIONS IN STRATEGIC LOCATIONS

2040-1

PRODUCTS OF CLARK — TRANSMISSIONS FORK TRUCKS & TRACTORS AXLE HOUSINGS
GEARS AND FORGINGS RAILWAY CAR TRUCKS ELECTRIC STEEL CASTINGS
FRONT AND REAR AXLES FOR TRUCKS AND BUSSES METAL SPOKE WHEELS TRACTOR UNITS

EXPANDERS, Piston Ring

Antajen Industries, Ltd., 937 Post St., San Francisco 9, Calif. "Dri-Plex."
Burd Piston Ring Co., Tenth St. & 23rd Ave., Rockford, Ill. "Rollpex." (Expanding.)
Hastings Mfg. Co., 375 E. Mill St., Hastings, Mich.
Ramsey Corp., 3693 Forest Park Blvd., St. Louis 8, Mo. "Ramco."
Royal Piston Ring Co., Bath, N. Y.
Sealed Power Corp., 500 Sanford St., Muskegon 61, Mich.
Smalley Accessories Corp., 224 W. Huron St., Chicago, Ill.
Wilkening Mfg. Co., 2000 S. 71st St., Philadelphia 42, Pa. "Pedrick."

EXPANDERS, Piston Skirt (Inserts)

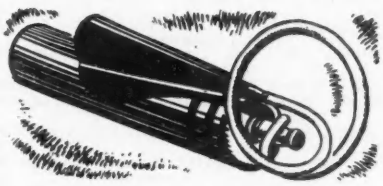
Burd Piston Ring Co., Tenth St. & 23rd Ave., Rockford, Ill.
Haling Co., 1061 First Ave., Rochester, Minn.
Hastings Mfg. Co., 375 E. Mill St., Hastings, Mich.
Loock & Co. R. J., 343 N. Gay St., Baltimore, Md. "Lightnin."
Luthy Co., F. A., 302 Cooper St., Jackson, Mich.
Perfect Circle Corp., 552 S. Washington St., Hagerstown, Ind.
Ramsey Corp., 3693 Forest Park Blvd., St. Louis 8, Mo. "Ramco."
Roberts Mfg. Co., Rear 4104 Manchester St., St. Louis 10, Mo.
Simplex Piston Ring Mfg. Co., 3830 Kelly Ave., Cleveland 14, Ohio.
Thexton Mfg. Co., 1313 Winter St., Minneapolis 13, Minn.
Wel-Ever Piston Ring Co., Speilbusch Ave. nr. Jackson St., Toledo 1, Ohio. "Ezy Fit," "U-Flex."
Wherry Engineering Co., 3229 Morganford Rd., St. Louis 16, Mo. "Master Recams."
Wilkening Mfg. Co., 2000 S. 71st St., Philadelphia 42, Pa. "Pedrick."

EXPANDERS, Piston Skirt (Machines)

Advertising Distributors, Inc., 5046 Shaw Ave., St. Louis 10, Mo. "A. D. I." (Electric.)
All-Power Mfg. Co., 202 Roosevelt Ave., Montebello, Calif.
Hastings Mfg. Co., 375 E. Mill St., Hastings, Mich. (Air operated hammers.)
McQuay-Norris Mfg. Co., 2320 Marconi Ave., St. Louis 10, Mo.
Master Products Mfg. Co., 3480 E. 22nd St., Los Angeles 23, Calif.
Perfect Circle Corp., 552 S. Washington St., Hagerstown, Ind. "Perfect Circle Nurlizer."
Ramsey Corp., 3693 Forest Park Blvd., St. Louis 8, Mo. "Ramconizer."
Watervliet Tool Co., 1349 Broadway, Albany 1, N. Y.
Wilkening Mfg. Co., 2000 S. 71st St., Philadelphia 42, Pa. "Pedrick."

EXTINGUISHERS, Fire (Portable)

American-LaFrance-Foamite Corp., 100 E. LaFrance St., Elmira, N. Y. "Fire-Gun," "La France."
Ansul Chemical Co., Fire Extinguisher Div., Marinette, Wis. (Dry chemical.)
Anthes Force Oiler Co., Ft. Madison, Iowa.
Beacon Devices, 74 Oliver St., North Tonawanda, N. Y. "Tireflator," "Jumbo Tireflator." (Portable units, inflates tires or extinguishes fires.)



Buffalo Fire Appliance Corp., 221 Crane St., Dayton 1, Ohio.
C-O-Two Fire Equipment Co., P. O. Box 390, Newark 1, N. J.
Diener Mfg. Co., Geo. W., 400 Monticello Ave., Chicago, Ill.
Dietz Co., R. E., 60 Laight St., New York 13, N. Y.
Fire-Killer Mfg. Co., 107 N. Franklin St., Syracuse 1, N. Y.
Fyr-Fyter Co., 221 Crane St., Dayton, Ohio.
General Detroit Corp., 2272 E. Jefferson St., Detroit 7, Mich. "General Quickair Fireguard."
Goodrich Co., B. F., S. Main St., Akron, Ohio.
K-D Lamp Co., 1910 Elm St., Cincinnati 10, Ohio.
Kent Extinguisher Co., 830 Front St., N. W., Grand Rapids, Mich. "Pistol-Grip."
Merlite Industries, Inc., 250 E. 43rd St., New York 17, N. Y. "Presto."
Power Pak Products, Inc., 43 Pearl St., Buffalo 2, N. Y.
Pyrene Mfg. Co., 560 Belmont Ave., Newark 8, N. J.
Randolph Laboratories, Inc., 8 E. Kinzie St., Chicago 11, Ill.
Stewart Mfg. Co., 3205 E. Washington St., Indianapolis 1, Ind.

EXTRACTORS, Bolt and Screw

Acorn Mfg. Co., 33rd & Reed Sts., Erie, Pa.
C. & G. Wheel Puller Co., Scio, N. Y. (Stud.)
Chicago-Latrobe Twist Drill Works, Div. of United Drill & Tool Corp., 411 W. Ontario St., Chicago 10, Ill. (Screw.)
Cleveland Twist Drill Co., 1242 E. 49th St., Cleveland 14, Ohio. "Ezy-Out."
Cornwell Quality Tools Co., Mogadore, Ohio.
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
Greenfield Tap & Die Corp., Sanderson St., Greenfield, Mass. "Little Giant."
Heli-Coil Corp., 47-23 35th St., Long Island City 1, N. Y. "Aero-Thread." (Stud.)
Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio. "Herbrand," "Van Chrome."
Keystone Reamer & Tool Co., Millersburg, Pa.
Loock & Co., R. J., 343 N. Gay St., Baltimore, Md. "Lightnin." (Screw.)
Morse Twist Drill & Machine Co., 162 Pleasant St., New Bedford, Mass.
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
New Britain Machine Co., 140 Chestnut St., New Britain, Conn.
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn. "OTC."
P & C Hand Forged Tool Co., Box G, Milwaukee, Ore.
Plomb Tool Co., 2209 Santa Fe Ave., Los Angeles, Calif. "Proto."
Reps Tool Co., Box 5, Elmwood Branch, Hartford 10, Conn. (Also stud.)
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. "Blue Point."
Whitman & Barnes Div. of United Drill & Tool Corp., Plymouth, Mich. (Screw.)
Wilde Drop Forge & Tool Co., 2938 Fairmount Ave., Kansas City, Mo.
Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K. R. W.-Nelson."
Winona Tool Mfg. Co., 1430 W. Broadway, Winona, Minn. "Lefty."
Wright Tool & Forge Co., 42 E. State St., Barberton, Ohio.
Zoerman-Clark Mfg. Co., Jackson, Mich.

EXTRACTORS, Bushing

Accurate Parts Mfg. Co., 12435 Euclid Ave., Cleveland 6, Ohio.
Acorn Mfg. Co., 33rd & Reed Sts., Erie, Pa.
Beard Tool Co., L. O., Andrew & Friel Sts., Lancaster, Pa.
Calvan Machine Products, Inc., 809 S. Water St., Jackson, Mich.
Cornwell Quality Tools Co., Mogadore, Ohio.
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
Electric Appliance Parts Co., 1561 E. 27th St., Cleveland, Ohio. "Double B & B."
Greb Co., 181 Canton St., Stoughton, Mass.
Ideal Mfg. Co., 2649 N. Kildare St., Chicago, Ill.
Kennedy Service Tools Co., P. O. Box 38, Mogadore, Ohio.
Kent Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn. "OTC."
Powercraft Corp., 2502 S. Wabash Ave., Chicago, Ill. "Powerflo." (Sole distributors Leterstone Sales Co., 2515 S. Wabash Ave., Chicago, Ill.)
Rinck-McIlwaine, Inc., 16 Hudson St., New York 13, N. Y. "Rimac."
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. "Blue Point."
Truth Tool Co., 711 S. Front St., Mankato, Minn.
Zim Mfg. Co., 3037 Carroll Ave., Chicago 12, Ill. (Horn.)
Zoerman-Clark Mfg. Co., Jackson, Mich.

FABRIC, Coated Cloth (For Curtains, Seat Covers, Tops and Upholstery)

Artcraft Fabrics, Inc., 8 W. 30th St., New York, N. Y.
Athol Mfg. Co., 71 Chestnut Hill Ave., Athol, Mass. "Terek," "Terson." (For curtains and upholstery.)
Atlantic Mercantile Co., 109 W. 64th St., New York 23, N. Y. "Khayemite," "Omarlite," "75," "32," "Stormalite," "Stormolon." (For tops.)
Blossom Mfg. Co., 915 Broadway, New York 10, N. Y. (For curtains.)
Burlington Mills, Inc., Burlington, Wis. "Bur-Tex." (Plastic coated, for kick plates, deck seals, floor covering.)
Carpenter & Co., L. E. 170 N. Main St., Wharton, N. J. "Lactrex," "Victrex." (Vinyl; sole distributors, A. J. Auchterlonie, Book Bldg., Detroit 26, Mich.)
Columbus Coated Fabrics Corp., 1280 N. Grant Ave., Columbus 16, Ohio. "Col-O-Tex," "Plastovin." (For upholstery.)
Cotan Corp., 331 Oliver St., Newark 5, N. J. "Co Hyde," "Cotana." (For seat covers, tops and upholstery.)
Duncan Co., W. H., 319 Broadway, New York 7, N. Y. "Dunotex."
du Pont de Nemours & Co., E. I., Fabrics Div., Empire State Bldg., New York 1, N. Y. ("Everbright" for decking; "Fabrikoid," "Fabrilite.")
Duro-Gloss Rubber Co., 30 Lenox St., New Haven, Conn.
Federal Leather Co., 681 Main St., Belleville 9, N. J. "Federaleather."
Goodall-Sanford, Inc., Reading Div., Reading, Mass. "Leatherwove," "Redolite."
Goodrich Co., B. F., 500 S. Main St., Akron 18, Ohio. "Koroseal."
Haartz Auto Fabric Co., 294 Pleasant St., Watertown 72, Mass. "Jonarts Cleaneasy," "Jonarts Harmony." (For tops and decking.)
Hettrick Mfg. Co., Summit & Magnolia Sts., Toledo, Ohio.
Joanna-Western Mills Co., 22nd & Jefferson Sts., Chicago, Ill. (Plastic coated for curtains, tops and upholstery.)
Landers Corp., Buckingham & Blucher Sts., Toledo 1, Ohio. ("Karavan" for convertible tops; "Watertyte" for top decks; "Versilan" for upholstery.)
Masland Duraleather Co., Amber & Willard Sts., Philadelphia 34, Pa. "Durasol."
Mt. Vernon-Woodberry Mills (Turner Halsey Co., Sales Agent, 40 Worth St., New York, N. Y.)
Niagara Fabric Mfg. Co., 161 Grand St., New York 13, N. Y. (Top and decking.)
Oakland Textile Co., 379 Fourth Ave., New York 16, N. Y.
Pantasote Co., 26 Jefferson St., Passaic, N. J. "Pantasote." (For curtains and upholstery; "Russialoid" for upholstery; "Wyncote" for seats.)
St. Clair Rubber Co., 440 Jefferson Ave., E. Detroit 26, Mich. "Clair-Tex."
Textileather Corp., Stickney Ave. & Dayton St., Toledo, Ohio. ("Decktex" for tops; "Textileather," "Tolex," "Textilco.")
Tower Co., A. J., 24 Simmons St., Boston 20, Mass. "Tower Proof."
Twitchell, Inc., E. W., Third & Somerset Sts., Philadelphia 33, Pa. "Textilene Plastistrand." (Plastic coated, for seat covers.)
United States Rubber Co., Coated Fabrics Div., Miskawaka, Ind. "U. S. Naugahyde."
Weymouth Art Leather Co., 180 Pearl St., South Braintree 85, Mass. "Weymolin." (Pyroxylin coated; "Weymolite" vinylite plastic coated.)

FABRICS, Uniform (Army Twill)

Reeves Brothers, Inc., 54 Worth St., New York 13, N. Y.

FACINGS, Clutch (Asbestos)

American Brakeblok Div., American Brake Shoe Co., 4600 Merrit Ave., Detroit 9, Mich.
Asbestos Mfg. Co., E. Sabine St., Huntington, Ind. "Dreadnaught."
Atlas Asbestos Co., North Wales, Pa.
Burrell Belting Co., 418 S. Hermitage Ave., Chicago, Ill.
Gatke Corp., 228 N. LaSalle St., Chicago 1, Ill.
Grey-Rock Div. of Raybestos-Manhattan, Inc., Manheim, Pa.
Johns-Manville Corp., 22 E. 40th St., New York 16, N. Y. "J-M."
Kerkling & Co., 12270 Montague St., Pacoima, Calif. "K&W."
Miley Co., L. J., 18 S. Sangamon St., Chicago 7, Ill.
National Brake Block Corp., 79 Madison Ave., New York, N. Y.
Raybestos Div. of Raybestos-Manhattan, Inc., Stratford, Conn.
Rex-Hide Brake Lining Co., 67 Glenwood Pl., East Orange, N. J.
Russell Mfg. Co., E. Main St., Middletown, Conn. "Rusco."
Thermoid Co., 200 Whitehead St., Trenton 6, N. J.
World Bestos Corp., S. 25th St., New Castle, Ind.

FACINGS, Clutch (Metallic)

Grey-Rock Div. of Raybestos-Manhattan, Inc., Manheim, Pa.

FACINGS, Clutch (Metallic)—cont.

Raybestos Div. of Raybestos-Manhattan, Inc., Stratford, Conn.
Wellman Co., S. K., 1374 E. 51st St., Cleveland 3, Ohio.

FAN BELTS, See Belts, Fan

FANS, Defrosting

Burd Piston Ring Co., HaDees Heater Div., Tenth St. & 23rd Ave., Rockford, Ill. "HaDees."
Casco Products Corp., 512 Hancock Ave., Bridgeport 2, Conn. "Casco," "Perfection."
Diehl Mfg. Co., Finderme Plant, 1011 Finderme Ave., Somerville, N. J. (Ventilating for buses.)
E. A. Laboratories, Inc., 696 Myrtle Ave., Brooklyn, N. Y.
Ero Mfg. Co., 714 W. Monroe St., Chicago 6, Ill.
Excel Auto Radiator Co., 320 E. 21st St., Chicago 16, Ill. "Marvel."
Fulton Co., 1912 S. 82nd Ave., Milwaukee 14, Wis.
Lydon-Bricher Mfg. Co., 2500 University Ave., St. Paul 4, Minn. "McKay." (For buses and trucks.)
Roto-Beam, 1755 N. Keeler St., Chicago 39, Ill.
Samson United Corp., 1700 University Ave., Rochester 10, N. Y. "Samson Safe-flex." (Rubber bladed.)
Signal Mfg. Co., 69 Bennett St., Lynn, Mass.
Thermo-Aire Div. of Evans Products Co., Plymouth, Mich. "Airfoil."
Torrington Mfg. Co., Franklin St., Torrington, Conn. "Airistocrat."
Trico Products Corp., 817 Washington St., Buffalo 3, N. Y. (Vacuum, defrosting.)
Wittie Mfg. Co., 1414 S. Wabash Ave., Chicago, Ill. "Wit-Eez."

FANS, Exhaust Drying

American Blower Corp., Detroit 32, Mich. "ABC," "ABC Sirocco."
Binks Mfg. Co., 3114 Carroll Ave., Chicago 12, Ill.
Buffalo Forge Co., 490 Broadway, Buffalo 5, N. Y.
Champion Blower & Forge Co., Harrisburg Ave. & Charlotte St., Lancaster, Pa.
Clarage Fan Co., North & Porter Sts., Kalamazoo, Mich.
Despatch Oven Co., 619 Eighth St., S. E., Minneapolis 14, Minn.
DeVilbiss Co., 300 Phillips Ave., Toledo 1, O.
Diehl Mfg. Co., Finderme Plant, 1011 Finderme Ave., Somerville, N. J.
Emerson Electric Mfg. Co., 8100 Florissant Ave., Detroit 21, Mich.
Ilg Electric Ventilating Co., 2850 N. Crawford Ave., Chicago, Ill.
Kirk & Blum Mfg. Co., 2819 Spring Grove Ave., Cincinnati, Ohio. "K & B."
Marathon Electric Mfg. Corp., Super Air Screw Div., Cherry & Randolph Sts., Wausau, Wis. "Marathon M.E."
Spray Engineering Co., 114 Central St., Somerville 45, Mass. "Spraco."
Western Blower Co., 1800 Airport Way, Seattle, Wash.
Westinghouse Electric Corp., Sturtevant Div., 15 Damon St., Hyde Park, Boston 36, Mass.
Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K.R.W."

FANS, Radiator

De Bothezat Fans Div., American Machine & Metals, Inc., East Moline, Ill. "De Bothezat."
Eaton Mfg. Co., 739 E. 40th St., Cleveland 10, Ohio.
Hayes Industries, Inc., Wildwood & Fern Aves., Jackson, Mich. "Autofan."
Jambor Tool & Stamping Co., 3057 N. 30th St., Milwaukee 10, Wis. "Bull Dog." (For Ford and Chevrolet cars.)
Schwitzer-Cummins Co., 1125 Massachusetts Ave., Indianapolis 7, Ind. "Hy Duty."
Service Products Corp., 201 S. Rural St., Indianapolis 1, Ind.
Thermo-Aire Div. of Evans Products Co., Plymouth, Mich. "Evans Thermo-Aire."

FELT, INSULATING, See Insulation, Felt, Hair, Paper, etc.

FENDERS

Bath Co., Cyril, Metal Form Div., E. 70th St. & Machinery Ave., Cleveland 3, Ohio.
Budd Mfg. Co., Edw. G., Hunting Park Ave. & 25th St., Philadelphia, Pa.
Champion Sheet Metal Co., 2 Squires St., Cortland, N. Y.
Chicago Mfg. Co., 411 N. Trumbull Ave., Salem, Ohio.
Cutler Metal Products Co., 1029 Line St., Camden, N. J.
Hart Pressed Steel Corp., 3306 Hammond Ave., Elkhart, Ind.
Kirk & Blum Mfg. Co., 2819 Spring Grove Ave., Cincinnati, Ohio. "K. & B." (Bus and truck.)
Metal Auto Parts Co., Chase & Henry Sts., Indianapolis 7, Ind.
Motors Metal Mfg. Co., 5936 Milford Ave., Detroit 10, Mich.
Mullins Mfg. Corp., 605 S. Ellsworth St., Salem, Ohio.
Murray Corp. of America, 7700 Russell St., Detroit 11, Mich.
Raybestos-Manhattan, Inc., Manhattan Rubber Div., 61 Willet St., Passaic, N. J. "Manhattan." (Rubber, for buses.)
Rex Metal Parts Co., 1295 W. 78th St., Cleveland 2, Ohio. (Bus, truck and fire engines.)
Saginaw Sheet Metal Parts Corp., 2064 E. Genesee Ave., Saginaw, Mich. (Truck.)
Stolper Steel Products Corp., 3200 W. Fond du Lac Ave., Milwaukee 10, Wis.
York Corrugating Co., Adams St. & W. Md. R. R., York, Pa. (Truck and trailer.)

FIFTH WHEELS, See Wheels, Fifth

FILES, Contact Point

Automotive Specialty Corp., 1562 DeKalb Ave., Brooklyn 27, N. Y. "Tasco."
Badger Tool & Mfg. Co., 1501 W. Polk St., Chicago, Ill.
Heller Bros. Co., 865 Mt. Prospect Ave., Newark, N. J.
K-D Mfg. Co., 526 N. Plum St., Lancaster, Pa.
Kastar, Inc., 200 Lincoln Ave., New York 54, N. Y. "Rub-Stone."
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.
Loock & Co., R. J., 343 N. Gay St., Baltimore, Md. "Lightnin."
Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich. "Mapco."
Miller Co., L. B., 394 State St., Stamford, Conn.
National Ignition Mfg. Co., 521 W. 23rd St., New York, N. Y. "Nimco."
New Britain Machine Co., 140 Chestnut St., New Britain, Conn.
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
Rinck-McIllwaine, Inc., 16 Hudson St., New York 13, N. Y. (Stones.)
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. "Blue Point."
Tacony File & Hardware Co., 2814 N. Fourth St., Philadelphia 33, Pa. "Contacto," "Tungsto," "Taconite," "Vim."
Victor Instrument Mfg. Co., 33 W. 60th St., New York 23, N. Y.

FILTERS, AIR, See Cleaners, Air

FILTERS, Coolant

American Octanator Corp., 2107 Industrial Trust Bldg., Providence, R. I. "Gazda Derusticator." (Magnetic.)
Spark-O-Linor Corp., Minneapolis, Minn.
Vulcan Mfg. Co., 400 W. Third St., Winona, Minn. "Mota Gard."

FILTERS, Diesel, Fuel

AC Spark Plug Div., General Motors Corp., 1300 N. Dort Highway, Flint 2, Mich.
American Bosch Corp., 3664 Main St., Springfield 7, Mass.
Briggs Filtration Co., Automotive Div., River Road, Bethesda 14, Md.
DeLuxe Products Corp., 1435 Lake St., La Porte, Ind.
Hilliard Corp., 113 W. Fourth St., Elmira, N. Y. "Hilco."
Luber-Finer, Inc., 2514 S. Grand Ave., Los Angeles 7, Calif.
Michiana Products Corp., Sheet Steel Div., Michigan City, Ind.
Purolator Products, Inc., 744 Broad St., Newark 2, N. J.
Skinner Purifiers Div. of Bendix Aviation Corp., 1500 Trombly Ave., Detroit 11, Mich.
W. G. B. Oil Clarifier, Inc., 139 Cornell St., Kingston, N. Y.
Winslow Engineering Co., 4069 Hollis St., Oakland 8, Calif.

FILTERS, Gasoline

AC Spark Plug Div., General Motors Corp., 1330 N. Dort Highway, Flint 2, Mich.
Airtex Automotive Div., Chefford Master Mfg. Co., Fairfield, Ill. (Equipped with damper.)
Alloy Mfg. Co., 3207 S. Shields Ave., Chicago 16, Ill. "Quality Built."
Autopulse Corp., 218 E. Dowland St., Ludington, Mich.
Carter Carburetor Corp., 2840 N. Spring Ave., St. Louis 7, Mo.
Champ-Items, Inc., 6191 Maple Ave., St. Louis 14, Mo.
Fram Corp., 55 Pawtucket Ave., East Providence 16, R. I.
Imperial Brass Mfg. Co., 1234 W. Harrison St., Chicago 7, Ill.
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J. "Kem-Aero."
Klemm Automotive Products Co., 1718 N. Damen Ave., Chicago 47, Ill.
Luber-Finer, Inc., 2514 S. Grand Ave., Los Angeles, Calif.
Moraine Products Div., General Motors Corp., 1420 Wisconsin Blvd., Dayton, Ohio. "Durex."
Purolator Products, Inc., 744 Broad St., Newark 2, N. J.
Skinner Purifiers Div. of Bendix Aviation Corp., 1500 Trombly Ave., Detroit 11, Mich.
Tillotson Mfg. Co., Wolcott Blvd. & Michigan Central Tracks, Toledo 12, Ohio. "Fil-Trap."
Zenith Carburetor Div. of Bendix Aviation Corp., 696 Hart Ave., Detroit 14, Mich.

FILTERS, Oil

(See also Reclaimers, Crankcase, Oil)

AC Spark Plug Div., General Motors Corp., 1300 N. Dort Highway, Flint 2, Mich.
Bolser Corp., S. Main St., Cedar Falls, Iowa. "Re-Pak-It."
Briggs Filtration Co., Automotive Div., River Rd., Bethesda 14, Md.
Buffalo Pressed Steel Co., 4021 Mahoning Ave., Youngstown, Ohio.
Campbell Filter & Mfg. Co., 132 Helen Ave., Ostego, Mich.
Champion Laboratories, Inc., 122 Charles St., Meriden, Conn. "Champlab."
Cuno Engineering Corp., 80 S. Vine St., Meriden, Conn. "Cuno Auto-Klean."
De Luxe Products Corp., 1435 Lake St., La Porte, Ind.
Filtors, Inc., 45-22 38th St., Long Island City 1, N. Y.
Fram Corp., 55 Pawtucket Ave., East Providence 16, R. I. "Col-Pak," "Fram Filcrom."
General Filters, Inc., 12890 Westwood Ave., Detroit 23, Mich.
Hilliard Corp., 113 W. 4th St., Elmira, N. Y. "Hilco."
Hutchens Industries, Inc., 1206 Hastings Way, Eau Claire, Wis.
Luber-Finer, Inc., 2514 S. Grand Ave., Los Angeles 7, Calif.
Michiana Products Corp., Sheet Steel Division, Michigan City, Ind. "H-W-Filter," "Michiana."
Oilpure Refiner Co., 5406 San Fernando Rd., Glendale, Calif.
Oil-Purifier, Inc., 3450 Broadway, Oakland, Calif. "Car-Life," "V. O. D."
Pick Mfg. Co., West Bend, Wis.
Purolator Products, Inc., 744 Broad St., Newark 2, N. J.
Reclaimo Mfg. Co., 5083 Elston Ave., Chicago, Ill. "Re-Claimo."
Skinner Purifiers Div. of Bendix Aviation Corp., 1500 Trombly Ave., Detroit 11, Mich.
W. G. B. Oil Clarifier, Inc., 139 Cornell St., Kingston, N. Y.
Walker Mfg. Co. of Wis., Michigan & Hamilton Sts., Racine, Wis. "Walker Laminar."
Winslow Engineering Co., 4069 Hollis St., Oakland 8, Calif.
Wix Accessories Corp., 1211 Ozark St., Gastonia, N. C.

FILTERS, Oil Refills

AC Spark Plug Div., General Motors Corp., 1300 N. Dort Highway, Flint 2, Mich.
Accessories Corp., 1211 Ozark St., Gastonia, N. C. "Wix Filterfil."
Bolser Corp., S. Main St., Cedar Falls, Iowa.
Buffalo Pressed Steel Co., 4021 Mahoning Ave., Youngstown, Ohio.
Campbell Filter & Mfg. Co., 132 Helen Ave., Otsego, Mich.
Champion Laboratories, Inc., 122 Charles St., Meriden, Conn. "Champlab."
De Luxe Products Corp., 1435 Lake St., La Porte, Ind.
Filtors, Inc., 45-22 38th St., Long Island City 1, N. Y.
Fram Corp., 55 Pawtucket St., East Providence 16, R. I. "Fram Filcron."
Hutchens Industries, Inc., 1206 Hastings Way, Eau Claire, Wis.
Oil-Purifier, Inc., 3450 Broadway, Oakland, Cal.
Pick Mfg. Co., West Bend, Wis.
Purolator Products, Inc., 744 Broad St., Newark 2, N. J.
Refill Filter Co., 120 Rhode Island Ave., East Orange, N. J. "Refilco."
Walker Mfg. Co. of Wis., Michigan & Hamilton Sts., Racine, Wis.
Winslow Engineering Co., 4069 Hollis St., Oakland 8, Cal.

It pays to be picky about pistons. Installing the *right* replacement pistons can make the difference between an overhaul job that barely passes inspection and one that puts real "snap" into an engine. That's why so many fleets have standardized on pistons of ALCOA LO-EX.

These light, strong aluminum pistons get full power out of fuel because they fit correctly at all engine temperatures. Clearance is controlled by the special low-expansion alloy and modern flexible-skirt design. Result—good compression and smooth, quiet operation. Engines run cool, because ALCOA LO-EX alloy conducts heat fast.

Re-power with pistons you can count on for top performance. Ask your supplier for aluminum pistons trade-marked ALCOA LO-EX—the name that identifies Alcoa castings, finished by leading piston makers.

ALUMINUM COMPANY OF AMERICA, 1916L Gulf Building, Pittsburgh 19, Pennsylvania.

ALCOA ALUMINUM ®

Aluminum Pistons of **ALCOA LO•EX**

1840-1

FIRE ENGINES, See Trucks, Fire

FLARES, Highway Lighting

American Automatic Devices Co., Throop, Harrison & Congress Sts., Chicago 7, Ill. "King Bee Ace," "King Bee Fuel-Tite," "King Bee Special." (Oil burning.)
Anthes Force Oiler Co., Ft. Madison, Iowa. (Oil burning and electric; also fusees.)
Arrow Safety Device Co., Mt. Holly, N. J. (Oil burning; also fusees.)
Bolser Corp., S. Main St., Cedar Falls, Iowa. (Oil burning; also fusees.)
Carpenter Mfg. Co., Sidney & Erie Sts., Cambridge, Mass. "Carpenter Master-Lites." (Electric and electric flasher type.)
Central Safety Signal Div. of Equitable Powder Mfg. Co., Box 360, Peru, Ind. "Centralite," "Central." (Fusees type.)
Dietz Co., R. E., 60 Laight St., New York 13, N. Y. (Oil burning, also fusee type.)
Do-Ray Lamp Co., 1458 S. Michigan Ave., Chicago 5, Ill. (Electric and kerosene.)
Embury Mfg. Co., Warsaw, N. Y.

Grote Mfg. Co., Lafayette & Grandview Aves., Bellevue, Ky. (Oil burning.)
K-D Lamp Div., Noma Electric Corp., 1910 Elm St., Cincinnati 10, Ohio. (Oil burning and electric; also fusees.)
Kilborn-Sauer Co., Post Rd., Fairfield, Conn.
Lite Mfg. Co., W. C., 1050 W. Hubbard St., Chicago 22, Ill.
Toledo Pressed Steel Co., 397 Phillips Ave., Toledo, Ohio. (Oil burning; also fusees.)
Turnsignal Corp., 400 E. Rittenhouse St., Philadelphia 44, Pa. "Turnco." (Electric.)
U-C Lite Mfg. Co., 1050 W. Hubbard St., Chicago 22, Ill. (Big Beam.)

FLAIRING TOOLS, See Tools, Tube Flaring

FLEET RECORDS, See Forms

FLOOR COVERING, See Covering, Floor

FLUID, Hydraulic Brake and Shock Absorber

Baltimore Paint & Color Works, 148 S. Calverton Rd., Baltimore, Md. "Senior Certified."
Barton Products Co., 2765 St. Mary's Court, Chicago 47, Ill.
Bell Co., 411 N. Wolcott Ave., Chicago 22, Ill.
Boyer Chemical Laboratories, 2232 S. Wabash Ave., Chicago, Ill. "3B."
Carbide & Carbon Chemical Corp., 30 E. 42nd St., New York, N. Y. "Ucon."
Chicago Hydraulic Oil Co., 11618 S. Front St., Chicago 28, Ill. "Brakrite" (Brake: "Shockoyl," "Hijoyl," "Lojoyl" shock absorber.)
Drew & Co., E. F., 15 E. 26th St., New York, N. Y. "Ameroid."
Durkee-Atwood Co., 215 Seventh St., N. E., Minneapolis 13, Minn.
Eis Automotive Corp., Middletown, Conn. (Brake.)
Excelo Mfg. Co., 1107 S. Fremont Ave., Alhambra, Calif. "Xcelo." (Brake.)
Fidelity Mfg. Co., Front & Bridge Sts., Catasauqua, Pa. ("Alrite," "Fidelity," Shock absorber; "Hydro-Loc" brake.)
Grizzly Mfg. Co., 700 W. Caroline St., Paulding, Ohio.
Gulf Oil Corp., Gulf Bldg., Pittsburgh 30, Pa. (Brake.)
Hollingshead Corp., R. M., 840 Cooper St., Camden, N. J. "Whiz."
International Metal Polish Co., 1910 Quill St., Indianapolis, Ind. "Blue Ribbon."
Loreman Automotive Products, Moore & Division Sts., Salisbury, Md. (Brake.)
Moraine Products Div., General Motors Corp., 1420 Wisconsin Blvd., Dayton, Ohio. "Delco." (Brake.)
Motive Equipment Mfrs., Inc., 5253 W. Roosevelt Rd., Chicago 50, Ill. "Pilot." (Brake.)
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill. (Brake.)
Park Chemical Co., Military & Vancouver Aves., Detroit 4, Mich. "Parko."
Penetone Co., 74 Hudson Ave., Tenafly, N. J. (Brake.)
Permatex Co., 1720 Ave. Y, Brooklyn 29, N. Y.
Porte Mfg. Co., 2930 Fulton St., Brooklyn 8, N. Y. "Porto."
Purfex Mfg. Co., 1830 Fairmount Ave., Philadelphia 30, Pa. (Brake.)
Puritan Co., 961 Lyell Ave., Rochester 6, N. Y.
Shell Oil Co., 50 W. 50th St., New York 20, N. Y.
Silver-Glo Co., 185 S. Main St., Seymour, Conn.
Sinclair Refining Co., 630 Fifth Ave., New York, N. Y. (Brake.)
Socony-Vacuum Oil Co., 26 Broadway, New York 4, N. Y. "Mobilfluid." (Hydraulic brake.)
Speco, Inc., 7308 Associate Ave., Cleveland 9, Ohio.
Stanley Co., John T., 642 W. 30th St., New York, N. Y. "Mobo."
Sun Oil Co., 1608 Walnut St., Philadelphia 3, Pa. "Sunoco." (Shock absorber.)
Supco Products Corp., S. Bayview Ave., Amityville, L. I., N. Y. (Hydraulic brake.)
Sure-Rite Products Corp., 2731 N. Sixth St., Philadelphia 33, Pa.
Thermoid Co., 200 Whitehead Rd., Trenton 6, N. J. (Brake.)
Tumbler Laboratories, J. A., 423 S. Hanover St., Baltimore 1, Md.
U. E. Chemical & Supply Co., 1424 McGee St., Kansas City 6, Mo. "Z-4."
V-O Mfg. Co., 13245 Sherman Ave., North Hollywood, Calif.
Van Cleef Bros., Inc., Woodlawn Ave., 77th to 78th St., Chicago 19, Ill. "Dutch Brand."
Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo. "Lockheed." (Brake.)
Warwick Laboratories Co., 334 Cleveland St., Brooklyn 8, N. Y. "Warco."

FLUID STARTING (For Diesels)

California Oil Co., The, Barber, N. J. "Chevron."

FLUSHERS, Crankcase

Gray Co., 60 11th Ave., N.E., Minneapolis 13, Minn. "Graco."
Hydro-Air Cleaning Systems, Inc., 2130 E. 105th St., Cleveland 6, Ohio.
Kerkling & Co., 12270 Montague St., Pacoima, Calif. "K & W."
Master Equipment Corp., 15 N. Broadway, Dayton, Ohio. "Flush Masters."

FLUSHERS, Differential and Transmission

Aero-Motive Mfg. Co., 1803 Alcott St., Kalamazoo 24, Mich. "Zoo."
Aro Equipment Corp., Bryan, Ohio.
Circo Products Co., 12117 Berea Rd., Cleveland 11, Ohio. "Circo Dee-Tee." (Solvent vapor, electrically heated.)
Coil Mfg. Co., 1001 N. Fares Ave., Evansville 11, Ind. (Guns.)
Dutton-Lainson Co., Mfg. Div., Hastings, Neb. "Rose."
Gray Co., 60 11th Ave., N. E. Minneapolis 13, Minn. "Graco." (Gear flushers.)
Homestead Valve Mfg. Co. (Hypressure Jenny Div.), Narrows Run Rd., Corapolis, Pa. "Hypressure Jenny."
Oakite Products, Inc., 22 Thames St., New York 6, N. Y.
Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K.R.W." (Flushers.)

FLUSHERS, Radiator and Block (Portable)

Aero-Motive Mfg. Co., 1803 Alcott St., Kalamazoo 24, Mich. "Zoo." (Guns.)
Associated Producers, Inc., 1019 E. Eight Mile Rd., Hazel Park, Mich. "Turbo Flush."
Brady Products, Inc., F. E., 18th & Ebright Sts., Muncie, Ind. (Electric powered unit.)
Choldum Mfg. Corp., 169 East St., New Haven, Conn. "Pressure Purger."
Drew & Co., E. F., 15 East 26th St., New York 10, N. Y.
Holcomb & Hoke Mfg. Co., 1545 Van Buren St., Indianapolis, Ind. "Moto Saver."
Homestead Valve Mfg. Co., (Hypressure Jenny Div.), Narrows Run Rd., Corapolis, Pa. "Hypressure Jenny." (Nozzles.)
Industrial Research, Inc., 1755 S. Central Ave., Phoenix, Ariz. "Flush-O-Matic."
Inland Mfg. Co., 1108 Jackson St., Omaha 8, Neb.
Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
Liquid Veneer Corp., Urban & Kehr Sts., Buffalo 11, N. Y. "Purgo Ejector."
Miller Mfg. Co., 5919 Tireman Ave., Detroit 4, Mich. (Guns.)
Sodrin Mfg. Co., 2748 McGee Trafficway, Kansas City, Mo. (Guns.)
Turco Products, Inc., 6135 S. Central Ave., Los Angeles, Calif. "Turco Ra-Bloc."
Universal Chemists, 107 Northampton St., Boston, Mass. "Hy-Power." (Guns.)
White Engineering & Mfg. Co., 70 W. Passaic St., Rochelle Park, N. J.

FLUX, WELDING, See Compounds, Welding

FOG LIGHTS, See Lamps, Fog, Road and Spot

FORK LIFT TRUCKS—See Trucks, Lift

FORMS (for Fleet Records)

Fleet Forms Co., 1410 N. High St., Columbus 16, Ohio.
Milbin Printing Co., 132 W. 22nd St., New York 11, N. Y.
Uarco, Inc., 5000 S. California Ave., Chicago 32, Ill.

FRAMES (Pressed Steel)

Midland Steel Products Co., 6660 Mt. Elliott Ave., Detroit 11, Mich.
Murray Corp. of America, 7700 Russell St., Detroit 11, Mich.
Parish Pressed Steel Co., Robison & Weiser Sts., Reading, Pa.
Smith Corp., A. O., 27th & Hopkins Sts., Milwaukee 1, Wis. "Smithway."
Spicer Mfg. Div. of Dana Corp., 4100 Bennett Rd., Toledo 1, Ohio. "Parish."
Youngstown Steel Car Corp., Niles, Ohio.

FUEL FILTERS, See Filters, Gasoline; also Filters, Diesel, Fuel

FUEL INJECTORS, DIESEL, See Injector Systems, Gasoline and Diesel Engine

FUEL LINES, FLEXIBLE, See Tubing, Oil and Gasoline Line

FUEL PUMP PARTS, See Parts, Fuel Pump

FUEL PUMP TESTERS, See Testers, Fuel Pump

FUEL PUMPS, See Pumps, Fuel

FUSEES, See Flares, Highway Lighting

FUSES, Electric

Acme Air Appliance Co., 100 Hinsdale St., Brooklyn 7, N. Y.
Bowes "Seal Fast" Corp., 228 N. Pine St., Indianapolis 7, Ind.
Bussmann Mfg. Co., 2536 W. University St., St. Louis 7, Mo. "Buss," "Buss Fustats," "Fusetrons."
Eagle Electric Mfg. Co., 23-10 Bridge Plaza South, Long Island City, N. Y.
General Electric Co., Appl. & Mdse. Dept., Bridgeport, Conn.
K-D Lamp Div. Noma Electric Corp., 1910 Elm St., Cincinnati 10, Ohio.
Killark Electric Mfg. Co., 3940 Easton Ave., St. Louis 13, Mo.
Kirkman Engineering Corp., 121 Sixth Ave., New York 13, N. Y. "K-E," "Kirkman Fustats," "Kirkman Thermofuses," "Peak Lag."
Littelfuse, Inc., 4757 Ravenswood Ave., Chicago 40, Ill.
Reynolds Mfg. Co., 1805 Alamo National Bldg., San Antonio 5, Tex. "Remco."
Royal Electric Co., 95 Grand Ave., Pawtucket, R. I.
Ware Bros., 4406 W. Lake St., Chicago, Ill. "W-B."

GAGES, Brake Drum

Ammco Tools, Inc., 2100 Commonwealth Ave., North Chicago, Ill.
Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo.
C. & G. Wheel Puller Co., Scio, N. Y.
Miller Mfg. Co., 5919 Tireman Ave., Detroit 4, Mich.
Shepard-Thomason Co., 2023 W. Gage Ave., Los Angeles 44, Calif. "Thomason."
Van Norman Co., 3640 Main St., Springfield 7, Mass. "Diam-A-Gage."
Zoerman-Clark Mfg. Co., Jackson, Mich.

GAGES, Brake Shoe

C. & G. Wheel Puller Co., Scio, N. Y.
Miller Mfg. Co., 5919 Tireman Ave., Detroit 4, Mich. "TruBrake."
Rush Mfg. Co., E. S., 499 San Fernando Rd., Los Angeles 3, Calif.
Shepard-Thomason Co., 2033 W. Gage Ave., Los Angeles 44, Calif.
Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K.R.W."

GAGES, Cylinder

Ames Co., B. C., 12 Ames St., Waltham 54, Mass.

CHAMPIONS
On Every Count

Powerful performance, rugged good looks, extra economy, long life . . . you can demand any or all of these and get them in full measure in a GMC "450."

Truck-built for the tough truck transport jobs, these champions of the 2½-ton field pull their loads with brilliantly performing, GMC-built, 270 cubic inch "Army Workhorse" engines . . . they carry their loads on strong, sturdy chassis that have deep, stiff frames and heavy, rugged axles . . . and out front of the loads their "king-sized" cabs offer comfort, convenience and safety that's unsurpassed.

Added to all this are such outstanding qualities as GMC's exclusive bumper-bar grille . . . gross weight ratings of 19,000 to 37,000 pounds . . . equipment options to meet the road and load characteristics of *your* hauling job. Your nearest GMC dealer has complete data.

GMC TRUCK & COACH DIVISION • GENERAL MOTORS CORPORATION

GMC TRUCKS

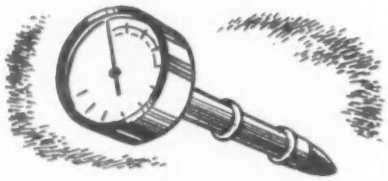
3811-1

GAGES, Cylinder—cont.

Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo. (Hydraulic brake.)
Curtiss & Smith Mfg. Corp., 22 High St., Pottstown, Pa. "C S." (Hydraulic brake.)
Federal Products Corp., 1144 Eddy St., Providence 1, R. I.
Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
McQuay-Norris Mfg. Co., 2320 Marconi St., St. Louis, Mo. "Centromatic." (Sole distributors. Advertising Distributors, Inc., 5046 Shaw Ave., St. Louis 10, Mo.)
Standard Gage Co., 70 Parker Ave., Poughkeepsie, N. Y.
Starrett Co., L. S., 1 Crescent St., Athol, Mass.

GAGES, Cylinder, Compression

Acme Air Appliance Co., 100 Hinsdale St., Brooklyn 7, N. Y.
Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13F, Mich.
Arsco Mfg. & Sales Corp., 451 Tenth Ave., New York 18, N. Y.
Electric Heat Control Co., 916 Inman Ave., Cleveland 5, Ohio. "King."
Griswold Mfg. Co., F. T., 305 W. Lancaster Ave., Wayne, Pa. "Motorstat." (Leak tester.)
Hastings Mfg. Co., 375 E. Mill St., Hastings, Mich.
Kennedy Service Tools Co., P. O. Box 38, Mogadore, Ohio.
Lanagan & Hoke, 431 E. Collom St., Philadelphia 44, Pa.
Mack Products Co., 15 Putnam St., Winthrop, Mass.
Miller Mfg. Co., 5919 Tireman Ave., Detroit 4, Mich.
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.
Powercraft Corp., 2502 S. Wabash Ave., Chicago. "Powerflo." (Sole distributors, Letherstone Sales Co., 2515 S. Wabash Ave., Chicago, Ill.)
Rex Mfg. Co., 415 Lake Ave., Racine, Wis.



Rinck-McIlwaine, Inc., 16 Hudson St., New York 13, N. Y. "Rimac." (Vacuum.)
Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ill.
United States Gauge Div. of American Machine & Metals, Inc., Sellersville, Pa.
Universal Chemists, 107 Northampton St., Boston, Mass. "Test-Master."
Weidenhoff, Inc., Joseph, 4340 W. Roosevelt Rd., Chicago 24, Ill.

GAGES, Dial

Ames Co., B. C., 12 Ames St., Waltham 54, Mass.
Brown & Sharpe Mfg. Co., 235 Promenade St., Providence, R. I.
Federal-Mogul Service, Detroit 13, Mich.
Federal Products Corp., 1144 Eddy St., Providence, R. I. (Indicator.)
Scherr Co., George, 200 Lafayette St., New York 12, N. Y.
Standard Gage Co., 70 Parker Ave., Poughkeepsie, N. Y.
Starrett Co., L. S., 1 Crescent St., Athol, Mass.

GAGES, Engine Vacuum

Advertising Distributors, Inc., 5046 Shaw Ave., St. Louis 10, Mo. "A.D.I."
Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13F, Mich.
Arsco Mfg. & Sales Corp., 451 Tenth Ave., New York 18, N. Y.
Electric Auto-Lite Co., Instrument & Gage Div., La Crosse, Wis.
Electric Heat Control Co., 9115 Inman Ave., Cleveland 5, Ohio. "King."
Electro Products Co., 445 E. 189th St., New York 58, N. Y. "Motor Peaker."
Hastings Mfg. Co., 375 E. Mill St., Hastings, Mich.
Kennedy Service Tools Co., P. O. Box 38, Mogadore, Ohio.
Lanagan & Hoke, 431 E. Collom St., Philadelphia 44, Pa. (Also for permanent installation on car.)
Miller Mfg. Co., 5919 Tireman Ave., Detroit 4, Mich.
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.
Rinck-McIlwaine, Inc., 16 Hudson St., New York 13, N. Y. "Rimac."
Rochester Mfg. Co., 100 Rockwood St., Rochester 10, N. Y.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.
Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ill.
United States Gauge Div. of American Machine & Metals, Inc., Sellersville, Pa.
Universal Chemists, 107 Northampton St., Boston, Mass. "Motochek."
Weidenhoff, Inc., Joseph, 4340 W. Roosevelt Rd., Chicago 24, Ill.

GAGES, Gasoline (Dash Type)

AC Spark Plug Div., General Motors Corp., 1300 N. Dort Highway, Flint 2, Mich. (Electric.)
Electric Auto-Lite Co., Instrument & Gage Div., La Crosse, Wis.
King-Seeley Corp., K-S Bldg., Ann Arbor, Mich. "K-S Telegage."
Stewart-Warner Corp., 1826 Diversey Parkway, Chicago, Ill. (Electric.)
United States Gauge Div. of American Machine & Metals, Inc., Sellersville, Pa. (Electric.)

GAGES, Gasoline (Tank Type)

Electric Auto-Lite Co., Instrument & Gage Div., La Crosse, Wis.
Rochester Mfg. Co., 100 Rockwood St., Rochester 10, N. Y.

GAGES, Oil Level

Rochester Mfg. Co., 100 Rockwood St., Rochester 10, N. Y.
Stewart-Warner Corp., 1826 Diversey Parkway, Chicago, Ill. (Electric.)

GAGES, Oil Pressure

AC Spark Plug Div., General Motors Corp., 1300 N. Dort Highway, Flint 2, Mich.
Dunn Mfg. Co., 117 15th St., Clarinda, Iowa. "Majestic." (For Ford cars.)
Electric Auto-Lite Co., Instrument & Gage Div., La Crosse, Wis.
Foxboro Co., Neponset Ave., Foxboro, Mass.
King-Seeley Corp., K-S Bldg., Ann Arbor, Mich. "K-S Telegage."
Rochester Mfg. Co., 100 Rockwood St., Rochester 10, N. Y.
Schwarze Electric Co., Church St. at Payne Ave., Adrian, Mich. "Teloil." (For Ford cars.)
Stewart-Warner Corp., 1826 Diversey Parkway, Chicago, Ill.
United States Gauge Div. of American Machine & Metals, Inc., Sellersville, Pa.

GAGES, Thickness or Feeler

Ames Co., B. C., 12 Ames St., Waltham 54, Mass.
Arsco Mfg. & Sales Corp., 451 Tenth Ave., New York 18, N. Y.
Brown & Sharpe Mfg. Co., 235 Promenade St., Providence, R. I.
Cornwell Quality Tools Co., Mogadore, Ohio.
Durkee-Atwood Co., 215 Seventh St., N. E., Minneapolis 13, Minn. "Durkee-Atwood Dor-Tite." (Car door.)
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
Federal Products Corp., 1144 Eddy St., Providence, R. I. (Thickness.)
Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio. "Herbrand," "Van Chrome."
Kastar, Inc., 200 Lincoln Ave., New York 54, N. Y. "Akuret."
Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
Keystone Reamer & Tool Co., Millersburg, Pa.
Lincoln Park Industries, Inc., 1719 Ferris Ave., Lincoln Park 25, Mich.
Lufkin Rule Co., Hess Ave., Saginaw, Mich.
Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich. "Mapco."
Michler, R. W., Perris, Calif. "Go No Go."
Miller Co., L. B., 394 State St., Stamford, Conn.
Millers Falls Co., Greenfield, Mass.
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
New Britain Machine Co., New Britain, Conn.
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn. "OTC."
P & C Hand Forged Tool Co., Box G, Milwaukie, Ore.
Plomb Tool Co., 2209 Santa Fe Ave., Los Angeles 54, Calif. "Proto."
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
Rovtar Tool-Die Mfg. Co., 2230 S. Wood St., Chicago 8, Ill.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. "Blue Point."
Standard Motor Products, Inc., 3718 Northern Blvd., Long Island City, L. I., N. Y. "Blue Streak."
Starrett Co., L. S., 1 Crescent St., Athol, Mass. (Also feeler stock in strips or rolls.)
Tacony File & Hardware Co., 2814 N. Fourth St., Philadelphia 33, Pa. "Ideal."
Truth Tool Co., 711 S. Front St., Mankato, Minn.
Union Tool Co., 48 E. River St., Orange, Mass.
Van Keuren Co., 176 Waltham St., Watertown, Mass.
Wilde Drop Forge & Tool Co., 2936 Fairmount Ave., Kansas City, Mo.
Zoerman-Clark Mfg. Co., Jackson, Mich.

GAGES, Tire Pressure

(See also Meters, Air Tower)

Acme Air Appliance Co., 100 Hinsdale St., Brooklyn 7, N. Y.
Amseco Inc., 564 W. Randolph St., Chicago 6, N. Y.
Diamond-U Products, 8459 Dearborn Ave., South Gate, Calif.
Dill Mfg. Co., 700 E. 82nd St., Cleveland 8, Ohio.
Druge Bros. Mfg. Co., 888 92nd Ave., Oakland 3, Calif. "Tru-Flate."
G.M. Co Mfg. Co., 43-10 21st St., Long Island City, L. I., N. Y.
Goodrich Co., B. F., 500 S. Main St., Akron, Ohio.
Monarch Insulated Wire Co., 491 Broadway, New York 12, N. Y.
Schrader's Son, Div. of Scovill Mfg. Co., A., 470 Vanderbilt Ave., Brooklyn 17, N. Y.
Syracuse Gauge Mfg. Corp., 113 S. Midler Ave., Syracuse, N. Y. "Hand-D."

GAGES, Water Temperature

AC Spark Plug Div., General Motors Corp., 1300 N. Dort Highway, Flint 2, Mich.
Electric Auto-Lite Co., Instrument & Gage Div., La Crosse, Wis.
King-Seeley Corp., K-S Bldg., Ann Arbor, Mich.
Rochester Mfg. Co., 100 Rockwood St., Rochester 10, N. Y.
Stewart-Warner Corp., 1826 Diversey Parkway, Chicago, Ill.
United States Gauge Div. of American Machine & Metals, Inc., Sellersville, Pa.

GAGES, Wheel and Axle Aligning

Bean Div. Food Machinery & Chemical Corp., John, 1305 S. Cedar St., Lansing 4, Mich. "Visualiner."
Bear Mfg. Co., 21st St. & Fifth Ave., Rock Island, Ill.
Bee-Line Co., Box 569, Davenport, Iowa.
Chief Alinement Corp., 440 13th St., Rock Island, Ill.
Cornwell Quality Tools Co., Mogadore, Ohio. "Cornwell-Krumm."
Duby Co., John F., 744 Gallivan Blvd., Dorchester 22, Mass. "Duby," "Ideal."
Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
Krumm Mfg. Co., T. F., 5150 Lewis Ave., Toledo 12, Ohio.
Kwik-Ezee, Inc., 17 W. 60th St., New York 23, N. Y.
Merrill Engineering Laboratories, 1230 Lincoln St., Denver 3, Colo.
Mesco Products, Crete, Nebr.
Miller Mfg. Co., 5919 Tireman Ave., Detroit 4, Mich.
Sweeney Mfg. Co., B. K., 1601 23rd St., Denver, Colo.
Testing Apparatus, Inc., 1627 W. Fort St., Detroit, Mich. "Dynamic Toe," "One-Man Toe," "Super Easy." (Sole distributors. Micro-Linor Service Corp., 1627 W. Fort St., Detroit 16, Mich.)
Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill.
Wilco Products, Inc., 595 Valley St., Orange, N. J.
Zoerman-Clark Mfg. Co., Jackson, Mich.

GAS, Acetylene

Air Reduction Sales Co., Lincoln Bldg., 60 E. 42nd St., New York 17, N. Y. "Airco."

How a spray gun can boost your public relations

A spray gun can help you gain goodwill . . . when it's used to put a bright, long-lasting finish on your fleet. Your trucks are your traveling representatives. When they look neat and well-kept, they convey a message that builds confidence in your organization and your product.

Why not capitalize on this potential public relations value? Make your trucks more attractive with Du Pont DULUX Enamel. DULUX has all the essential finish qualities needed by road-seasoned trucks and buses. It's tough, handsome . . . easy to work with. And it keeps its full gloss and color despite the highway hazards of stains, weathering and rough handling. Furthermore, DULUX gives extra-long wear. That means less "paint-shop time" for your trucks . . . lighter day-to-day maintenance costs. E. I. du Pont de Nemours & Co. (Inc.), Refinish Sales, Wilmington 98, Del.

FOR A COMPLETE JOB—Du Pont Preparakote, the primer that *fills*, is specially formulated to work with DULUX. It goes on easily, dries fast, and stays put! From start to *finish*...use Du Pont finishes.

DU PONT
REG. U. S. PAT. OFF.
DULUX
REG. U. S. PAT. OFF.
ENAMEL
BETTER THINGS FOR BETTER LIVING . . . THROUGH CHEMISTRY

1250-1

Fleet operators:

Read these facts

Now, for the first time, fleet operators can achieve top quality lubrication with an actual reduction in application costs and with greatly simplified lubricants supply. The Shell "3-Barrel Plan" takes advantage of new products of Shell Research—a new concept of chassis and gear lubrication:

Shell Retinax A Grease does the job of 4 separate greases . . . only one gun required for every type of truck or bus . . . mechanics *can't* use the wrong grease.

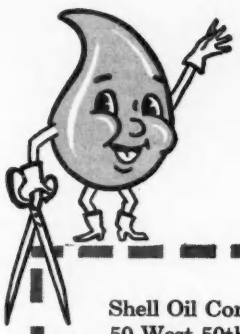
Shell Spirax EP Gear Oil combines in one lubricant the different qualities demanded in transmission and differential gears.* It was developed especially for the extreme pressures of heavy-duty service.

SHELL "3-BARREL" FLEET

Here's BIG News!

SHELL'S NEW 3-BARREL PLAN

1. Cuts down-time for vehicle lubrication
2. Assures foolproof lubricant application
3. Cuts costs . . . simplifies stocking



SHELL®

Shell Rotella Oil for crankcase use—the oil that embodies new discoveries of Shell Research that CUT ENGINE WEAR . . . that EXTEND TIME BETWEEN ENGINE OVERHAULS.

The Shell Lubrication Engineer will be glad to explain to you the cost-cutting advantages of the Shell "3-Barrel Plan." *Mail coupon for full information.*

*For Hydraulic Transmissions and Worm Drives, get specific recommendations from the Shell Lubrication Engineer.

LUBRICATION

Shell Oil Company
50 West 50th Street, New York 20, N. Y. or
100 Bush Street, San Francisco 6, California

Please send me the particulars of Shell's new "3-Barrel Plan" for better fleet lubrication.

Name_____

Company_____

Address_____

1788-2

GAS, Acetylene—cont.

Burdett Oxygen Co. of Cleveland, Inc., 3300 Lakeside Ave., Cleveland 14, Ohio. "Burdox."
Independent Engineering Co., O'Fallon, Ill.
Linde Air Products Co., 30 E. 42nd St., New York 17, N. Y. "Prest-O-Lite." (Cylinders.)
National Cylinder Gas Co., 840 N. Michigan Ave., Chicago 11, Ill. "NCG." (Cylinders.)
Paschall Oxygen Co., 73rd St. & Woodland Ave., Philadelphia 42, Pa. (Cylinders.)
Southern Oxygen Co., P. O. Box 5087, Washington 19, D. C.

GAS, Hydrogen

Burdett Oxygen Co. of Cleveland, Inc., 3300 Lakeside Ave., Cleveland 14, Ohio.
Independent Engineering Co., O'Fallon, Ill.
Linde Air Products Co., 30 E. 42nd St., New York 17, N. Y.
National Cylinder Gas Co., 840 N. Michigan Ave., Chicago 11, Ill. "NCG." (Cylinders.)
Paschall Oxygen Co., 73rd St. & Woodland Ave., Philadelphia 42, Pa. (Cylinders.)
Southern Oxygen Co., P. O. Box 5087, Washington 19, D. C.

GAS, Oxygen

Air Reduction Sales Co., Lincoln Bldg., 60 E. 42nd St., New York 17, N. Y. "Airco."
Burdett Oxygen Co. of Cleveland, Inc., 3300 Lakeside Ave., Cleveland 14, Ohio.
Independent Engineering Co., O'Fallon, Ill.
Linde Air Products Co., 30 E. 42nd St., New York 17, N. Y.
National Cylinder Gas Co., 840 N. Michigan Ave., Chicago 11, Ill. "NCG." (Cylinders.)
Paschall Oxygen Co., 73rd St. & Woodland Ave., Philadelphia 42, Pa. (Cylinders.)
Southern Oxygen Co., P. O. Box 5037, Washington 19, D. C.

GASKETS, Asbestos

Acme Mfg. & Gasket Co., 733 N. 41st St., Philadelphia 4, Pa.
Anchor Packing Co., 401 N. Broad St., Philadelphia 8, Pa.
Asbestos Textile Co., 165 W. Wacker Drive, Chicago 1, Ill.
Auburn Mfg. Co., Pease Ave. & Stack St., Middletown, Conn.
Burgess Leather Co., A. E., Brigham Hill Rd., Grafton, Mass.
Chambers Gasket & Mfg. Co., 314 W. Superior St., Chicago, Ill. "Superbestos."
Cleveland Gasket & Mfg. Co., 1610 W. 116th St., Cleveland 2, Ohio.
Consolidated Packing & Supply Co., 116 Nassau St., New York 7, N. Y. "Primrose." "Consolco."
Cooper Mfg. Co., 411 S. First Ave., Marshalltown, Iowa.
Darcoid Co., 145 Sixth Ave., New York 13, N. Y. "Dominion."
Detroit Gasket & Mfg. Co., 12640 Burt Rd., Detroit 23, Mich.
Felt Products Mfg. Co., 1508 Carroll Ave., Chicago 7, Ill. "Wirepak."
Field Mfg. Co., R. B. P.O. Box 894, Worcester 1, Mass. "Fieldco."
Fitzgerald Mfg. Co., 691 Main St., Torrington, Conn.
Garlock Packing Co., 402 Main St., Palmyra, N. Y.
Gasket, Packing & Specialty Co., 298 Broadway, New York, N. Y.
Gatke Corp., 228 N. La Salle St., Chicago 1, Ill.
Greene, Tweed & Co., North Wales, Pa. "Palmetto."
Grey Rock Div. of Raybestos-Manhattan, Inc., Manheim, Pa.
Johns-Manville Corp., 22 E. 40th St., New York 16, N. Y. "J-M."
Keystone Gasket Mfg. Co., 833 N. Fourth St., Philadelphia, Pa.
Marston Co., I. G., 226 Ruggles St., Boston 20, Mass.
Melrath Supply & Gasket Co., Tioga & Memphis Sts., Philadelphia 34, Pa.
Mitchell & Smith Div., Sheller Mfg. Corp., 9501 Copeland Ave., Detroit 17, Mich.
Quaker Rubber Corp., Tacony & Comly Sts., Philadelphia 24, Pa.
Vellumoid Co., 54 Rockdale St., Worcester 6, Mass. "Velbestos"; "Wirebestos." (Wire woven.)
Victor Mfg. & Gasket Co., 5750 W. Roosevelt Rd., Chicago 50, Ill. "Asbestoprene." "Victopac." "Victor."
Wisconsin Gasket & Mfg. Co., 8724 N. Granville Rd., Granville, Wis.

GASKET COMPOUNDS

Duroyd Gasket & Die Mfg. Co., 1828 Amsterdam Ave., New York, N. Y.
Fidelity Mfg. Co., Front & Bridge Sts., Catasauqua, Pa. "Alrite," "Fidelity."
Flexrock Co., Packing Div., 23rd & Manning Sts., Philadelphia 3, Pa. "Plastic Gasket."
Gasket, Packing & Specialty Co., 298 Broadway, New York, N. Y.
Hollingshead Corp., R. M., 840 Cooper St., Camden, N. J. "Whiz."
P. O. B. Mfg. Co., 3215 Colerain Ave., Cincinnati, Ohio. "Gasket-Makers."
Pep Mfg. Co., 33 W. 42nd St., New York, N. Y. "Gasket Goo." (In tubes.)
Permatex Co., 1720 Ave. Y, Brooklyn 29, N. Y. "Form-A-Gasket."
Puritan Co., 573 Lyell Ave., Rochester 6, N. Y.
Radiator Specialty Co., 1722 Dowd Rd., Charlotte, N. C. "Tite Seal."
Stanley Co., John T., 642 W. 30th St., New York, N. Y. "Mobo."
Sure-Rite Products Corp., 2731 N. Sixth St., Philadelphia 33, Pa.

GASKETS, Copper-Asbestos

Acme Mfg. & Gasket Co., 738 N. 41st St., Philadelphia 4, Pa.
Auburn Mfg. Co., Pease Ave. & Stack St., Middletown, Conn.
Cleveland Gasket & Mfg. Co., 1610 W. 116th St., Cleveland 2, Ohio.
Consolidated Packing & Supply Co., 116 Nassau St., New York 7, N. Y.
Felt Products Mfg. Co., 1508 Carroll Ave., Chicago 7, Ill. "Fel-Pro Sealmaster."
Fitzgerald Mfg. Co., 691 Main St., Torrington, Conn.
Gasket, Packing & Specialty Co., 298 Broadway, New York, N. Y.
Keystone Gasket Mfg. Co., 833 N. Fourth St., Philadelphia 23, Pa.
Marston Co., I. G., 226 Ruggles St., Boston 20, Mass.
Melrath Supply & Gasket Co., Tioga & Memphis Sts., Philadelphia 34, Pa.
McCord Corp., 2587 E. Grand Blvd., Detroit 11, Mich. "McKim."
Sure-Rite Products Corp., 2731 N. Sixth St., Philadelphia 33, Pa.
Victor Mfg. & Gasket Co., 5750 W. Roosevelt Rd., Chicago 50, Ill.

GASKETS, Cork

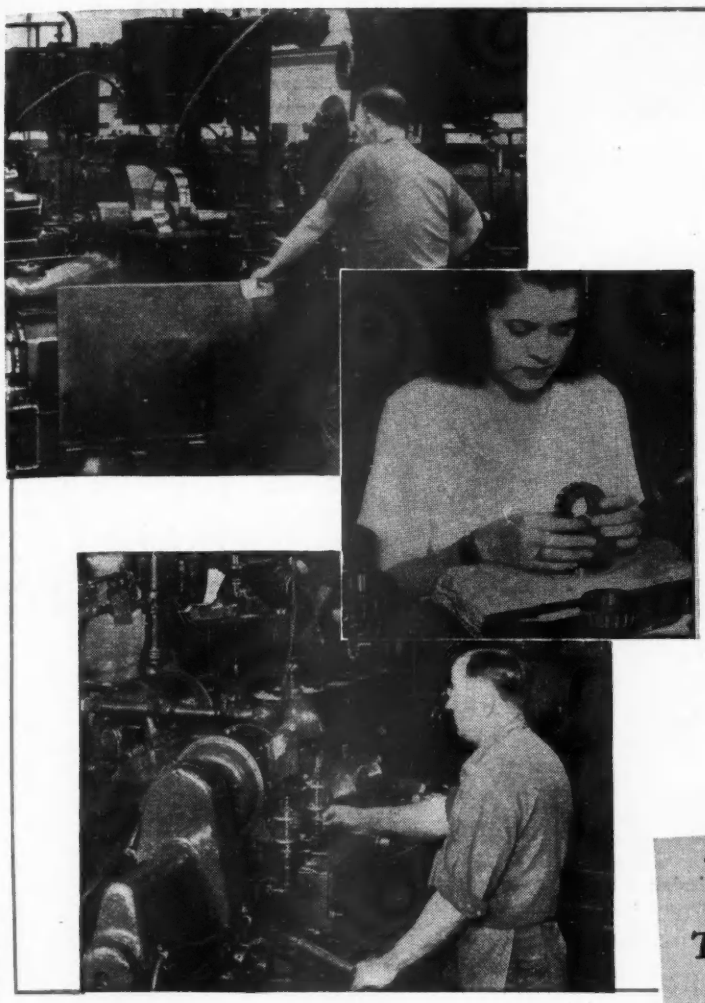
Acme Mfg. & Gasket Co., 738 N. 41st St., Philadelphia 4, Pa.
Advance Felt & Gasket Co., 663 W. Washington Blvd., Chicago, Ill.
Alloy Mfg. Co., 3207 S. Shields Ave., Chicago 16, Ill. "Quality Built."
Armstrong Cork Co., Industrial Div., Lancaster, Pa. "Armstrong's," "Accopac." ("Armstrong-Victor," sole distributors to replacement trade, Victor Mfg. & Gasket Co., 5750 W. Roosevelt Rd., Chicago, Ill.)
Auburn Mfg. Co., Pease Ave. & Stack St., Middletown, Conn.
Chambers Gasket & Mfg. Co., 314 W. Superior St., Chicago, Ill. "Durocork," "Supercork."
Chicago Cork Works Co., 5289 N. Avondale Ave., Chicago 30, Ill.
Cleveland Gasket & Mfg. Co., 1602 W. 116th St., Cleveland 2, Ohio.
Consolidated Packing & Supply Co., 116 Nassau St., New York 7, N. Y.
Cooper Mfg. Co., 411 S. First Ave., Marshalltown, Iowa.
Coyne & Paddock, Inc., 40-09 21st St., Long Island City 1, N. Y.
Detroit Gasket & Mfg. Co., 12640 Burt Rd., Detroit 23, Mich.
Felt Products Mfg. Co., 1508 Carroll Ave., Chicago 7, Ill. "Fel-Pro," "Carrocork."
Field Mfg. Co., R. B. P. O. Box 894, Worcester 1, Mass. "Fieldco."
Fitzgerald Mfg. Co., 691 Main St., Torrington, Conn. "Fitz-Cork."
Garlock Packing Co., 402 Main St., Palmyra, N. Y.
Gasket, Packing & Specialty Co., 298 Broadway, New York, N. Y.
Keystone Gasket Mfg. Co., 833 N. Fourth St., Philadelphia 23, Pa.
McCord Corp., 2587 E. Grand Blvd., Detroit 11, Mich. "McKim."
Marston Co., I. G., 226 Ruggles St., Boston 20, Mass.
Melrath Supply & Gasket Co., Tioga & Memphis Sts., Philadelphia 34, Pa.
Mitchell & Smith Div. Sheller Mfg. Corp., 9501 Copeland Ave., Detroit 17, Mich.
Mundet Cork Corp., 7101 Tonnelle Ave., North Bergen, N. J. "Jointite."
Philadelphia Gasket & Mfg. Co., F & Atlantic Sts., Philadelphia 34, Pa.
Sure-Rite Products Corp., 2731 N. Sixth St., Philadelphia 33, Pa. (Headlamp, oil pan, valve cover and fuel pump bowl.)
Sutherland Leather & Felt Co., 743 Beaubien St., Detroit 26, Mich.
Victor Mfg. & Gasket Co., 5750 W. Roosevelt Rd., Chicago 50, Ill.
Wisconsin Gasket & Mfg. Co., 8724 N. Granville Rd., Granville, Wis.

GASKETS, Fibrous and Paper

Acme Mfg. & Gasket Co., 738 N. 41st St., Philadelphia 4, Pa.
Advance Felt & Gasket Co., 663 W. Washington Blvd., Chicago, Ill.
Alloy Mfg. Co., 3207 S. Shields Ave., Chicago 16, Ill. "Quality Built."
Anchor Packing Co., 401 N. Broad St., Philadelphia 8, Pa.
Armstrong Cork Co., Industrial Div., Lancaster, Pa.
Auburn Mfg. Co., Pease Ave. & Stack St., Middletown, Conn.
Brandywine Fibre Products Co., 1441 Poplar St., Wilmington, Del.
Burgess Leather Co., A. E., Brigham Hill Rd., Grafton, Mass.
Chambers Gasket & Mfg. Co., 314 W. Superior St., Chicago, Ill. "Super-Pak."
Cleveland Gasket & Mfg. Co., 1602 W. 116th St., Cleveland 2, Ohio.
Consolidated Packing & Supply Co., 116 Nassau St., New York 7, N. Y. "Wisoid."
Continental-Diamond Fibre Co., Newark 10, Del. "Diamond."
Cooper Mfg. Co., 411 S. First Ave., Mashalltown, Iowa. "Gaskoid," "Korkite."
Detroit Gasket & Mfg. Co., 12640 Burt Rd., Detroit 23, Mich. "DeLoid," "Korkoid," "Springold."
Endura Mfg. Corp., 45 N. Fourth St., Quakertown, Pa.
Excelsior Leather Washer Mfg. Co., 720 Chestnut St., Rockford, Ill. "X-L."
Felt Products Mfg. Co., 1508 Carroll Ave., Chicago 7, Ill. "Karropak."
Field Mfg. Co., R. B., P. O. Box 894, Worcester 1, Mass. "Fieldco."
Fitzgerald Mfg. Co., 691 Main St., Torrington, Conn.
Garlock Packing Co., 402 Main St., Palmyra, N. Y.
Gasket, Packing & Specialty Co., 298 Broadway, New York, N. Y.
Houser Engrg. & Mfg. Co., Bluffton, Ind.
Johns-Manville Corp., 22 E. 40th St., New York 16, N. Y.
Keystone Gasket Mfg. Co., 833 N. Fourth St., Philadelphia 23, Pa.
Kuehn Co., N. L., 407 W. Highland Ave., Milwaukee 3, Wis.
Marston Co., I. G., 226 Ruggles St., Boston 20, Mass.
Melrath Supply & Gasket Co., Tioga & Memphis Sts., Philadelphia 34, Pa.
Merrimac Paper Co., 295 Madison Ave., New York 17, N. Y.
Mitchell & Smith Div., Sheller Mfg. Corp., 9501 Copeland Ave., Detroit 17, Mich. "M & S."
Philadelphia Gasket & Mfg. Co., F & Atlantic Sts., Philadelphia 34, Pa.
Quaker Rubber Corp., Tacony & Comly Sts., Philadelphia 24, Pa.
Sure-Rite Products Corp., 2731 N. Sixth St., Philadelphia 33, Pa.
Taylor Fibre Co., Norristown, Pa.
Vellumoid Co., 54 Rockdale St., Worcester, Mass. "Vellumoid," "Vellutex."
Victor Mfg. & Gasket Co., 5750 W. Roosevelt Rd., Chicago 50, Ill. "Victorite," "Ferropac."
Wilmington Fibre Specialty Co., P. O. Drawer 1028, Wilmington, Del.
Wisconsin Gasket & Mfg. Co., 8724A N. Granville Rd., Granville, Wis.

GASOLINE

American Oil Co., American Bldg., Baltimore, Md.
Atlantic Refining Co., 260 S. Broad St., Philadelphia 2, Pa.
Cities Service Oil Co., 60 Wall Tower, New York, N. Y.
Continental Oil Co., Continental Oil Bldg., Ponca City, Okla.
Esso Standard Oil Co., Esso Bldg., 15 N. 51st St., New York, N. Y.
Gulf Oil Corp., Gulf Bldg., Pittsburgh 30, Pa.
Mid Continent Petroleum Corp., Tulsa 2, Okla.
Pure Oil Co., The, 35 E. Wacker Drive, Chicago 1, Ill.
Richfield Oil Corp., 555 S. Flower St., Los Angeles 13, Cal.
Shell Oil Co., 100 Bush Street, San Francisco 6, Cal.



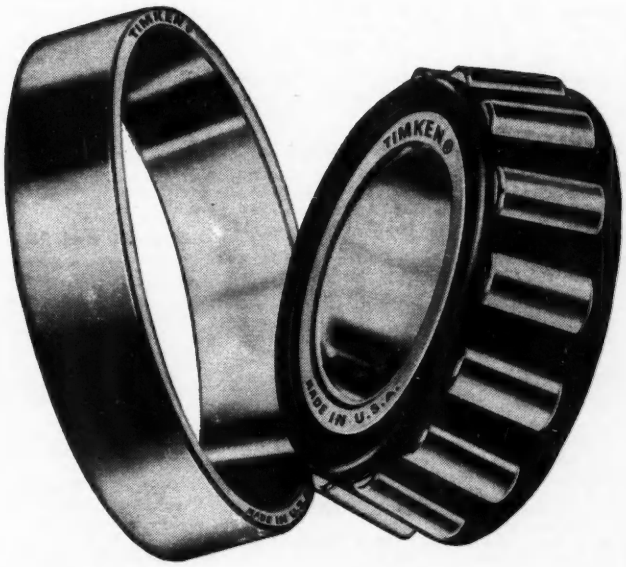
1 out of 3 are inspectors!

More than one-third of the factory personnel in the Timken® roller bearing plant devote their full time to inspection. Working with the most modern scientific measuring devices—many specially developed by Timken—Timken inspectors check the precision of every Timken bearing before it leaves the plant. Every step in manufacture, from the melting of the steel to the final assembly of the bearing, is rigidly controlled. This intensive inspection which assures uniform top quality in the Timken bearings you use, is one of the many reasons why Timken bearings are first choice with leading truck manufacturers.

Another reason why TIMKEN® bearings are first choice with truck manufacturers

SINCE THEY'RE BEST WHEN THE TRUCK IS NEW ...THEY'RE BEST FOR REPLACEMENT, TOO!

YOU CAN'T GO WRONG when you use Timken bearings for replacement. Timken bearings last longer under the toughest loads. They reduce friction to a minimum and hold wheels and shafts in proper alignment. It pays to look for the trade-mark "Timken" on every bearing you install. SEND FOR FREE BOOKLET: *Timken Tapered Roller Bearings, Their Care and Maintenance.* Contains 20 pages of practical tips for mechanics, garage men and fleet operators. Write Dept. JC-11, The Timken Roller Bearing Company, Canton 6, Ohio. Cable address: "TIMROSCO".



TIMKEN

TRADE MARK REG. U. S. PAT. OFF.

TAPERED ROLLER BEARINGS

NOT JUST A BALL NOT JUST A ROLLER THE TIMKEN TAPERED ROLLER BEARING TAKES RADIAL AND THRUST LOADS OR ANY COMBINATION

1950-1

GASOLINE—cont.

Shell Oil Co., 50 West 50th St., New York 20, N. Y.
Sinclair Refining Co., 630 Fifth Ave., New York, N. Y.
Socony-Vacuum Oil Co., 26 Broadway, New York 4, N. Y.
Standard Oil Co. of California, 225 Bush St., San Francisco 20, Cal.
Standard Oil Co. (Indiana), 910 S. Michigan Ave., Chicago 80, Ill.
Sun Oil Co., 1604 Walnut Street, Philadelphia 3, Pa.
Texas Co., The, 135 E. 42nd St., New York 17, N. Y.
Tide Water Associated Oil Co., 17 Battery Place, New York 4, N. Y.

GASOLINE FILTERS, See Filters, Gasoline

GATES, Truck (Folding)

Atlas Fence Co., Richmond St. & Castor Ave., Philadelphia 34, Pa.
Bustin Iron Works, Inc., 110 E. 130th St., New York 35, N. Y.
Logan Co., 201 N. Buchanan St., Louisville 6, Ky.
Zehr Products Co., 2130 E. Hazzard St., Philadelphia 25, Pa. (Steel.)

GEAR PULLERS, See Pullers, Gear and Wheel

GEARS, Flywheel Ring

Accurate Gear Div. Republic Gear Co., 8130 Jos. Campau Ave., Detroit, Mich.
Automotive Gear Works, Inc., Eighth & S. O Sts., Richmond, Ind. "Double Diamond."
Industrial Gear Mfg. Co., 4513 W. Van Buren St., Chicago 24, Ill.
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio.
Perfection Gear Co., 152nd St. & Vincennes Ave., Harvey, Ill.
Republic Gear Co., 2197 Beaufait Ave., Detroit 7, Mich.
Springfield Mfg. Co., Bechtle Ave. & Columbia St., Springfield, Ohio. "Excelsior."
Wohlert Corp., 700 E. Grand River Ave., Lansing 6, Mich.

GEARS, Landing (Trailer)

Austin Trailer Equipment Co., 1148 W. Western Ave., Muskegon, Mich.
Dayton Steel Foundry Co., 1366 Miami Chapel Rd., Dayton, Ohio.
Fruehauf Trailer Co., 10940 Harper Ave., Detroit 32, Mich.
Holland Hitch Co., 430 W. 18th St., Holland, Mich.
Homan & Co., Inc., 920-926 State Ave., Cincinnati 4, Ohio.
Kingham Trailer Co., 15th & Hill Sts., Louisville 10, Ky. "Kingham-Universal."
Warren Gear Mfg. Co., Warren, Pa.

GEARS, Steering

Gemmer Mfg. Co., 6400 Mt. Elliott Ave., Detroit 11, Mich. (Manual and hydraulic.)
Ross Gear & Tool Co., 800 Heath St., Lafayette, Ind.
Saginaw Steering Gear Div., General Motors Corp., Clinton & Hamilton Sts., Saginaw, Mich.

GEARS, Steering (Booster Units)

Air-O-Matic Power Steer Co., 2180 Lee Rd., Cleveland Heights 18, Ohio. "Apsco."
Bendix Products Div., Bendix Aviation Corp., 401 Bendix Drive, South Bend 20, Ind. (Hydraulic.)
Bendix-Westinghouse Automotive Air Brake Co., 901 Cleveland Rd., Elyria, Ohio. (Air.)
Garrison Mfg. Co., 1506 S. Santa Fe Ave., Los Angeles 21, Calif. (Hydraulic.)
Vickers, Inc., 1400 Oakland Blvd., Detroit 32, Mich. (Hydraulic.)

GEARS, Timing (Metallic and Non-Metallic)

Al-Fin Div., Fairchild Engine & Airplane Corp., Farmingdale, L. I., N. Y. (Aluminum with bonded in steel hubs, semi-finished.)
Brad-Foote Gear Works, Inc., 1301 S. Cicero Ave., Cicero 50, Ill.
Chicago Gear Works, 440 N. Oakley Blvd., Chicago 12, Ill.
Cloyes Gear Works, Inc., 17214 Roseland Rd., N. E., Cleveland 12, Ohio.
Continental-Diamond Fibre Co., Newark 10, Del. "Celoron."
Crofoot Gear Corp., Charles E., 55 Central St., South Easton, Mass.
D & B Mfg. Co., 2329 Michigan Blvd., Chicago, Ill.
Detroit Bevel Gear Co., 8130 Jos. Campau Ave., Detroit 11, Mich.
Dexter Machine Products Co., 20540 U. S. 12 W., Chelsea, Mich. "Sylvan." (Aluminum-steel, for Chevrolet and Ford cars and trucks, Studebaker cars and GMC trucks.)
Dittmer Gear & Mfg. Corp., 193 Grand St., Lockport, N. Y.
Elgin Machine Works, 412 N. State St., Elgin, Ill.
Fairfield Mfg. Co., Wallace Ave. & Belt R. R., Lafayette, Ind.
Fostoria Screw Co., 250 E. Fourth St., Fostoria, Ohio.
Gatke Corp., 228 N. La Salle St., Chicago 1, Ill.
General Electric Co., Chemical Dept., 1 Plastic Ave., Pittsfield, Mass. "Fabroil," "Textolite." (Non-metallic.)
Hoof Products Co., 6543 S. Laramie Ave., Chicago 38, Ill. (Metallic.)
International Parts Corp., 11th & State Sts., Chicago 5, Ill.
L. M. Gear Co., 23120 Gratiot Ave., East Detroit, Mich.
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio. (Sole distributors to replacement trade. Lempco Automotive, Inc., 2953 E. 55th St., Cleveland 4, Ohio.)
Panelyte Div., St. Regis Paper Sales Corp., 230 Park Ave., New York 17, N. Y. (Non-metallic.)
Perfection Gear Co., 152nd St. & Vincennes Ave., Harvey, Ill.
Taylor Fibre Co., Norristown, Pa. (Non-metallic.)
Taylor Machine Co., 2040 E. 77th St., Cleveland 3, Ohio. "Taylor-Made."
Timing Gears Corp., 2801 Fulton St., Chicago 12, Ill. "Cy-lent."
Wells, Inc., Martin, 5886 Compton Ave., Los Angeles 1, Calif. "Martin Wells."
Westinghouse Electric Corp., 306 Fourth Ave., Pittsburgh 30, Pa. "Micarta." (Non-metallic.)

GEARS, Transmission

Brad-Foote Gear Works, Inc., 1301 S. Cicero Ave., Cicero 50, Ill.
Cotta Transmission Co., 2340 11th St., Rockford, Ill.
Detroit Bevel Gear Co., 8130 Jos. Campau Ave., Detroit 11, Mich.
Dittmer Gear & Mfg. Corp., 193 Grand St., Lockport, N. Y.
Fairfield Mfg. Co., Wallace Ave. & Belt R. R., Lafayette, Ind.
Gear & Forge Div. of Clark Equipment Co., Horton & Tyson Sts., Jackson, Mich.
International Parts Corp., 11th & State Sts., Chicago 5, Ill.
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio. (Sole distributors to replacement trade, Lempco Automotive, Inc., 2953 E. 55th St., Cleveland 4, Ohio.)
Levene Motor Co., 6245 State Rd., Philadelphia 35, Pa.
New Process Gear Co., 500 Plum St., Syracuse, N. Y.
Perfection Gear Co., 152nd St. & Vincennes Ave., Harvey, Ill.
Republic Gear Co., 2197 Beaufait Ave., Detroit 7, Mich.
Taylor Machine Co., 2040 E. 77th St., Cleveland 3, Ohio. "Taylor-Made."
Warford Corp., 44 Whitehall St., New York, N. Y. (Ford and Chevrolet trucks.)
Warner Automotive Parts Div., Borg-Warner Corp., S. Wayne St., Auburn, Ind.

GEARS and PINIONS, Rear Axle

(For complete units—see Differentials)

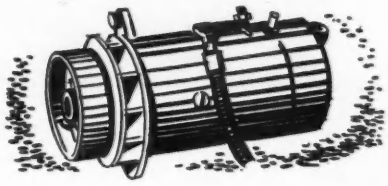
Detroit Bevel Gear Co., 8130 Jos. Campau Ave., Detroit 11, Mich.
Fairfield Mfg. Co., Wallace Ave. & Belt R. R., Lafayette, Ind.
Gear & Forge Div. of Clark Equipment Co., Horton & Tyson Sts., Jackson, Mich.
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio. (Sole distributors to replacement trade, Lempco Automotive, Inc., 2953 E. 55th St., Cleveland 4, Ohio.)
Levene Motor Co., 6245 State Rd., Philadelphia 35, Pa.
Perfection Gear Co., 152nd St. & Vincennes Ave., Harvey, Ill.
Republic Gear Co., 2197 Beaufait Ave., Detroit 7, Mich.
Taylor Machine Co., 2040 E. 77th St., Cleveland 3, Ohio. "Taylor-Made."
Warner Automotive Parts Div., Borg-Warner Corp., S. Wayne St., Auburn, Ind.
Warren Gear Mfg. Co., Warren, Pa.

GEARS, Worm Drive

Baush Machine Tool Co., 156 Wason Ave., Springfield, Mass.
Beaver Gear Works, Inc., 1025 Parmele St., Rockford, Ill.
Boston Gear Works, Div. Murray Corp., 14 Hayward St., Quincy 71, Mass.
Brad-Foote Gear Works, Inc., 1301 S. Cicero Ave., Cicero 50, Ill.
Chicago Gear Works, 440 N. Oakley Blvd., Chicago 12, Ill.
Cleveland Worm & Gear Co., 3274 E. 80th St., Cleveland 4, Ohio. "C. W. & G. Co."
Cloyes Gear Works, Inc., 17214 Roseland Rd., N. E., Cleveland 12, Ohio.
Crofoot Gear Corp., Charles E., 55 Central St., S. Easton, Mass.
Eberhardt-Denver Co., 1408 W. Colfax Ave., Denver 4, Colo.
Fairfield Mfg. Co., Wallace Ave. & Belt R. R., Lafayette, Ind.
Industrial Gear Mfg. Co., 4513 W. Van Buren St., Chicago 24, Ill.
L. M. Gear Co., 23120 Gratiot Ave., East Detroit, Mich.
Meisel Press Mfg. Co., 944 Dorchester Ave., Boston 25, Mass.
Newark Gear Cutting Machine Co., 69 Prospect St., Newark 5, N. J.
Rochester Gear Works, 4483 Orion Rd., Rochester, Mich.
Smith Corp., Winfield H., 100 Easton St., Springfield, N. Y. "W. H. S."
Steel Products Engineering Co., 1205 W. Columbia St., Springfield, Ohio.
Taylor Machine Co., 2040 E. 77th St., Cleveland 3, Ohio. "Taylor-Made."

GENERATORS

American Bosch Corp., 3664 Main St., Springfield 7, Mass. "American Bosch Volt-O-Matic."
Auto-Lite Battery Corp., Owen-Dyneto Corp., 1920 Park St., Syracuse, N. Y.
Bendix Products Div., Bendix Aviation Corp., 401 Bendix Drive, South Bend 20, Ind. (For scooters and small motorized vehicles.)



Electric Auto-Lite Co., Toledo 1, Ohio. "Auto-Lite."
Electric Sprayit Co., 14th & Illinois Sts., Sheboygan, Wis. "Elsco."
General Armature & Mfg. Co., Mill Hall, Pa.
Leece-Neville Co., 5363 Hamilton Ave., Cleveland 14, Ohio. "L-N." (Bus and truck.)

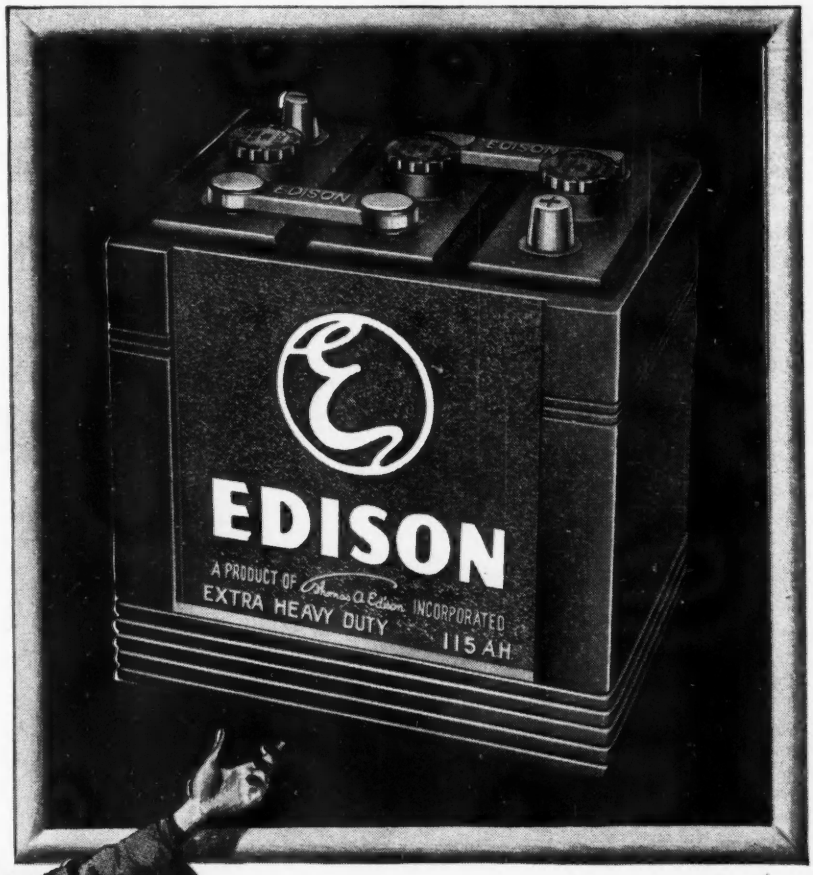
GLASS, Safety

American Window Glass Co., 1600 Farmers Bank Bldg., Pittsburgh 22, Pa. "Supratest."
Libbey-Owens-Ford Glass Co., Nicholas Bldg., Toledo 3, Ohio. "HiTest."
Pittsburgh Plate Glass Co., 2200 Grant Bldg., Pittsburgh 19, Pa. "Duplicate," "Duolite," "Multiplate," "Carrara," "Herculite."
Protecto Safety Glass Co., 82-08 Cooper Ave., Brooklyn 27, N. Y.
Safetee Glass Co., 4717 Stenton Ave., Philadelphia 44, Pa.
Shatterproof Glass Co., 4815 Cabot Ave., Detroit, Mich. "Shat-R-Proof."

GOVERNORS, Engine

Holley Carburetor Co., 5930 Vancouver Ave., Detroit 4, Mich.
Hoof Products Co., 6543 S. Laramie Ave., Chicago 38, Ill.
King-Seeley Corp., K-S Bldg., Ann Arbor, Mich. "Handy."
Klemm Automotive Products Co., 1718 N. Damen Ave., Chicago 47, Ill.
Mallory Electric Corp., Cloverdale & Fullerton Aves., Detroit 4, Mich. (Also combination governor and distributor.)
Monarch Governor Co., 1832 W. Bethune Ave., Detroit 6, Mich.
Pierce Governor Co., 1615 Ohio Ave., Anderson, Ind.
Safety Speed Control Co., 7800 N. E. Fourth Court, Miami, Fla.
Thieman Harvester Co., Albert City, Iowa.

"Do I like Edison quality? And how!



"WHO WOULDN'T BE SOLD ON EDISON! When I pick up one of their batteries, I know it'll be ready to go . . . and keep on going!

"Take my word for it, that battery has everything. Why, I've been to the plant and watched 'em being made. The posts they put in that battery are solid lead, and they build the plates to stay. Know how many times they're inspected before they're shipped out? Yessir, 106.

"Nope, you can't convince me all batteries are alike. I'm for Edison every time. Same way about their spark plugs. Those Edison products can't be beat!"

EDISON

BATTERIES • SPARK PLUGS

You can always rely on an Edison

Thomas A Edison

THOMAS A. EDISON, INCORPORATED
Automotive Division, West Orange, New Jersey

1512-1

GOVERNORS, Engine—cont.

Zenith Carburetor Div. of Bendix Aviation Corp., 696 Hart Ave., Detroit 14, Mich. (Also "Zenith Gov-U-Retor" combination carburetor and governor.)

GRAPHITE, Lubricating

Acheson Colloids Corp., 1925 Washington Ave., Port Huron, Mich. "Glydag," "Oildag," "Dag," "Aquadag," "Castordag."
Boyle-Midway, Inc., 22 E. 40th St., New York, N. Y. "Kant Rust."
Dixon Crucible Co., Joseph, Jersey City 3, N. J.
Durkee-Atwood Co., 215 Seventh St., N. E., Minneapolis 13, Minn.
Hill & Griffith Co., 1262 State St., Cincinnati 4, Ohio.
Obermayer Co., S., 2563 W. 18th St., Chicago 8, Ill. "Esso."
Superior Flake Graphite Co., 1531 First National Bank Bldg., Chicago 3, Ill. "Motorflake," "Superflake."
United States Graphite Co., 1621 Holland Ave., Saginaw, Mich. "Mexican."
Van Cleef Bros., Inc., Woodlawn Ave., 77th to 78th Sts., Chicago 19, Ill. "Dutch Brand."

GREASE, Chassis, See Oils and Lubricants

GREASE GUNS, HAND, See Lubricators, Hand

GREASE GUNS, PUMPS, CABINETS AND BUCKETS, HIGH PRESSURE, See Lubricators, Portable, High Pressure

GREASE AND OIL ABSORBENTS (Floor), See Absorbents, Oil and Grease (Floor)

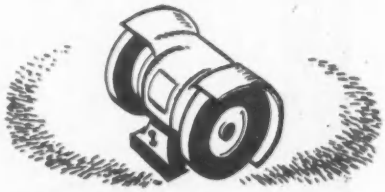
GREASE RETAINERS, See Retainers, Oil and Grease

GRILLES, Radiator

Aluminum Goods Mfg. Co., Manitowoc, Wis.
Automotive Grille Co., 2111 S. Michigan St., Chicago, Ill.
Buffalo Wire Works Co., 506 Terrace, Buffalo 2, N. Y.
Cutler Metal Products Co., 1029 Line St., Camden, N. J.
Doehler Die-Casting Co., 386 Fourth Ave., New York, N. Y.
Douglas & Lomason Co., 5836 Lincoln Ave., Detroit 8, Mich.
Electric Auto-Lite Co., Bay Mfg. Div., Bay City, Mich.
Excel Corp., 1120 N. Main St., Elkhart, Ind. "XL." (For White trucks.)
Globe Stamping Div., Hupp Motor Car Corp., 1250 W. 76th St., Cleveland 2, Ohio.
Helms Industrial Development Co., 2145 Edgewood St., N. E., Grand Rapids, Mich.
Jacobs Co., F. L., 1043 Spruce St., Detroit 1, Mich.
Saginaw Industries Co., 2119 S. Jefferson Ave., Saginaw, Mich. (For Ford and Chevrolet.)
Zenite Metal Corp., 201 N. West St., Indianapolis, Ind.

GRINDERS, Bench

Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa. "Sioux."
American Hydraulics Inc., 1822 Wildwood Ave., Sheboygan, Wis.
Atlas Press Co., 1842 N. Pitcher St., Kalamazoo 13D, Mich.
Baldor Electric Co., 4351 Duncan Ave., St. Louis 10, Mo.
Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.
Blount Co., J. G., Woodland St., Everett 49, Mass.
Bradford Machine Tool Co., 657 Evans St., Cincinnati 4, Ohio. "Metalmaster."
Cincinnati Electrical Tool Co., 2699 Madison Rd., Cincinnati 8, Ohio.
Diehl Mfg. Co., Finderme Plant, 1011 Finderme Ave., Somerville, N. J.
Evans Reamer & Machine Co., 5490 Dunham Rd., Maple Heights, Ohio.
Forbes & Myers, 172 Union St., Worcester 8, Mass.
Hisey-Wolf Machine Co., Div. Smith & Mills Co., 2889 Spring Grove Ave., Cincinnati 25, Ohio.
Independent Pneumatic Tool Co., 175 State St., Aurora, Ill. "Thor."
Lee Co., K. O., Congress Ave., S. E., Aberdeen, S. D. "Knock-Out."
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio.
Louisville Electric Mfg. Co., 3008 Magazine St., Louisville, Ky. "Pioneer."
Luther Grinder & Tool Co., Sheboygan, Wis.
Marathon Electric Mfg. Corp., Cherry & Randolph Sts., Wausau, Wis. "Marathon M.E."
Millers Falls Co., Greenfield, Mass.
Milwaukee Electric Tool Co., 5316 W. State St., Milwaukee 8, Wis.
Misener Mfg. Co., 202 Walton St., Syracuse 2, N. Y.
Motor Generator Corp., The Hobart Brothers Co., Hobart Square, Troy, N. Y.
Porter-Cable Machine Co., 1714 N. Salina St., Syracuse 8, N. Y. "Guild."
Richards Co., J. A., 903 N. Pitcher St., Kalamazoo 13F, Mich.
Schauer Machine Co., 2060 Reading Rd., Cincinnati 2, Ohio.
Skilsaw, Inc., 5033 Elston Ave., Chicago, Ill. "SkilGrinder."
Speedway Mfg. Co., 1834 S. 52nd Ave., Cicero 30, Ill.
Standard Electrical Tool Co., Mt. Hope & River Rd., Cincinnati 4, Ohio.
Stanley Electric Tool Div. of Stanley Works, 480 Myrtle St., New Britain, Conn.
United States Electrical Tool Co., 1050 Findlay St., Cincinnati 14, Ohio.



Valley Electric Corp., 4221 Forest Park Blvd., St. Louis, Mo.
Van Dorn Electric Tools, Towson 4, Md.
Vonnegut Moulder Corp., 1879 Madison Ave., Indianapolis 2, Ind. "Marschke."
Walker-Turner Div., Kearney & Trecker Corp., 639 South Ave., Plainfield, N. J.
Wickman Mfg. Co., 15533 Woodrow Wilson Ave., Detroit 3, Mich. "Wickman-Neven."
Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K.R.W."

GRINDERS, Brake Drum

Barrett Equipment Co, 2101 Cass Ave., St. Louis 6, Mo.
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio.
Rush Mfg. Co., E. S., 499 San Fernando Rd., Los Angeles 3, Calif.

GRINDERS, Brake Lining and Shoe

Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo. (Grinders.)
Chicago Rivet & Machine Co., 9603 W. Jackson Blvd., Bellwood, Ill. (Chicago Suburb.) (Grinders; also combination deliner, reliner and grinder.)
Evans Reamer & Machine Co., 5490 Dunham Rd., Maple Heights, Ohio.
Interstate Brake Testing Machine Co., 1218 Rio Vista Ave., Los Angeles 23, Calif. "Langbein."
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio.
Miller Mfg. Co., 5919 Tireman Ave., Detroit 4, Mich. "TruBrake." (Grinders.)
Rush Mfg. Co., E. S., 499 San Fernando Rd., Los Angeles 3, Calif.
Shepard-Thomason Co., 2023 W. Gage Ave., Los Angeles 44, Calif. "Thomason." (Combination brake lining and brake shoe grinding.)
Van Norman Co., 3640 Main St., Springfield 7, Mass.
Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K.R.W." (For Ford cars.)

GRINDERS, Crankshaft

Evans Reamer & Machine Co., 5490 Dunham Rd., Maple Heights, Ohio.
Landis Tool Co., Sixth & Ringold Sts., Waynesboro, Pa.
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio. (Portable.)
Norton Co., 1 New Bond St., Worcester 6, Mass.
Storm-Vulcan, Inc., 2504 Commerce St., Dallas 1, Tex.
Sunnen Products Co., 7910 Manchester Ave., St. Louis 17, Mo. (Attachment.)
Van Norman Co., 3640 Main St., Springfield 7, Mass.
Waterbury Tool, Div. of Vickers, Inc., 188 E. Aurora St., Waterbury 91, Conn. (Portable.)
Winona Tool Mfg. Co., 1430 W. Broadway, Winona, Minn. "Intheblok." (Portable.)

GRINDERS, Cylinder

Bryant Chucking Grinder Co., 257 Clinton St., Springfield, Vt.
Heald Machine Co., 14 New Bond St., Worcester 6, Mass.
Landis Tool Co., Sixth & Ringold Sts., Waynesboro, Pa.
Sunnen Products Co., 7910 Manchester Ave., St. Louis 17, Mo.

GRINDERS, Drill

Black Diamond Saw & Machine Works, Natick, Mass.
Consolidated Machine Tool Corp., Winton & Blossom Rd., Rochester 10, N. Y. "Sellers."
Covel Mfg. Co., Graham Ave., Benton Harbor, Mich.
Gallmeyer & Livingston Co., 346 Straight Ave., Grand Rapids 4, Mich. "Grand Rapids."
Hisey-Wolf Machine Co., Div. Smith & Mills Co., 2889 Spring Grove Ave., Cincinnati 25, Ohio.
La Salle Tool Co., 77 W. Washington St., Chicago 2, Ill. "American."
Lisle Corp., 809 E. Main St., Clarinda, Iowa.
McDonough Mfg. Co. (Machine Tool Dept.), Eau Claire, Wis. "Sterling."
Oliver Instrument Co., 1410 E. Maumee St., Adrian, Mich.
Pratt & Whitney, Div. Niles-Bement-Pond Co., Charter Oak Blvd., West Hartford 1, Conn.
Ten Eyck Industries, Fred F., 758 S. Irolo St., Los Angeles 5, Calif.

GRINDERS, Piston Ring

Arter Grinding Machine Co., 15 Sagamore Rd., Worcester 5, Mass.
Heald Machine Co., 14 New Bond St., Worcester 6, Mass.
Lehman Machine Co., 3560 Chouteau Ave., St. Louis 3, Mo.

GRINDERS, Portable Electric

Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa. "Sioux."
Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.
Buckeye Tools Corp., 29 W. Apple St., Dayton 1, Ohio.
Chicago Pneumatic Tool Co., 6 E. 44th St., New York, N. Y.
Chicago Wheel & Mfg. Co., 1101 W. Monroe St., Chicago 7, Ill.
Cincinnati Electrical Tool Co., 2699 Madison Rd., Cincinnati 8, Ohio.
Dremel Mfg. Co., 2420 18th St., Racine, Wis. "Moto-Tool."
Dumore Co., 14th & Racine Sts., Racine, Wis.
Duro Metal Products Co., 2649 N. Kildare St., Chicago 39, Ill.
Independent Pneumatic Tool Co., 175 State St., Aurora, Ill. "Thor."
Lee Co., K. O., Congress at First Ave., S. E., Aberdeen, S. D. "Knock-Out."
Louisville Electric Mfg. Co., 3008 Magazine St., Louisville, Ky. "Pioneer."
Martindale Electric Co., 1340 Hird Ave., Cleveland 7, Ohio.
Millers Falls Co., Greenfield, Mass.
Milwaukee Electric Tool Co., 5316 W. State St., Milwaukee, Wis.
Precise Products Co., 1328 Clark St., Racine, Wis.
Rotor Tool Co., 17325 Euclid Ave., Cleveland 12, Ohio.
Skilsaw, Inc., 5033 Elston Ave., Chicago 30, Ill. "SkilGrinder."
Speedway Mfg. Co., 1834 S. 52nd Ave., Cicero 30, Ill.
Syntron Co., 495 N. Lexington Ave., Homer City, Pa.
United States Electrical Tool Co., 1050 Findlay St., Cincinnati 14, Ohio.
Van Dorn Electric Tools, Towson 4, Md.

GRINDERS, Portable Pneumatic

Aro Equipment Corp., Bryan, Ohio.
Buckeye Tools Corp., 29 W. Apple St., Dayton 1, Ohio.
Chicago Pneumatic Tool Co., 6 E. 44th St., New York, N. Y. "CP."
Independent Pneumatic Tool Co., 175 State St., Aurora, Ill. "Thor."
Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y.
Keller Tool Co., 1333 Fulton St., Grand Haven, Mich.
Madison-Kipp Corp., 201 Waubesa St., Madison, Wis. "Kip."
Onsrud Machine Works, Inc., 3900 Palmer St., Chicago 47, Ill.

50 Years of Good Brakes

"We Stop Them All—Safely"

American Brakeblok brake lining is quickly available from 38 NAPA Warehouses and NAPA Jobbers everywhere.

American Brakeblok
REG. U. S. PAT. OFF.

BRAKE LINING

AMERICAN Brake Shoe COMPANY

AMERICAN BRAKEBLOK DIVISION
DETROIT 9, MICHIGAN

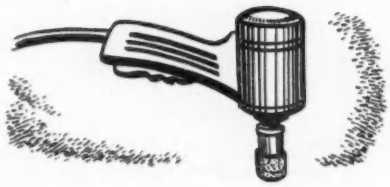
1945-1

GRINDERS, Portable Pneumatic—cont.

Rotor Tool Co., 17325 Euclid Ave., Cleveland 12, Ohio.
Schramm, Inc., West Chester, Pa.

GRINDERS, Valve Seat (Portable Electric)

Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa. "Sioux."
Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md. "Vibro-Centric."
Cedar Rapids Engineering Co., 902 N. 17th St., Cedar Rapids 1, Iowa. "Kwik-Way."
Independent Pneumatic Tool Co., 175 State St., Aurora, Ill. "Thor."
Keystone Reamer & Tool Co., Millersburg, Pa.



Precision Electric Tool & Mfg. Co., 98 Union St., Worcester 8, Mass.
S & D Engineering Co., 1709 Standard Ave., Glendale 1, Calif.
Skilsaw, Inc., 5033 Elston Ave., Chicago 30, Ill. "Skil Grinder."
United States Electrical Tool Co., 1050 Findlay St., Cincinnati 14, Ohio.
Waterbury Tool, Div. of Vickers, Inc., 188 E. Aurora St., Waterbury 91, Conn. "Waterbury Hall."
Winona Tool Mfg. Co., 1430 W. Broadway, Winona, Minn. "Feather Touch."

GUARDS, Bumper

Bumper Guard Co., 277 Washington Ave., Memphis, Tenn. "Bump-R-Gard."
Cello Products Co., 161 Prescott St., East Boston 28, Mass.
Eaton Mfg. Co., Stamping Div., 755 E. 140th St., Cleveland 10, Ohio.
Erie Mfg. Co., 2635 S. Wabash Ave., Chicago 16, Ill.
Hamlin Metal Products Co., Exchange at Water Sts., Akron, Ohio.
Houdaille-Hershey Corp., 800 E. Garfield St., Decatur, Ill.
Jacobs Co., F. L., 1043 Spruce St., Detroit 1, Mich.
Lansing Stamping Co., So. Pens. Ave., Lansing, Mich.
Perfection Automotive Products Corp., 925 W. Elizabeth St., Detroit 1, Mich.
Perry Co., The, Dept. S-1, P. O. Box 725, Waco, Texas.
Shaw Co., Joseph, 6225 Benore Rd., Toledo 12, Ohio.
Snyder Mfg. Co., 22nd & Ontario Sts., Philadelphia 40, Pa.

GUARDS, Radiator, Grille and Fender

Arnolt Motor Div., Arnolt Corp., Argonne Rd., Warsaw, Ind. (Grille.)
Bumper Guard Mfg. Co., 1093 Chelsea Ave., Memphis 1, Tenn. "Bump-R-Gard."
Bustin Iron Works, Inc., 110 E. 130th St., New York 35, N. Y. (Truck radiator.)
Cello Products Co., 161 Prescott St., East Boston 28, Mass.
Central Motor Co., 906 Austin Ave., Waco, Tex. "Protector."
Champion Sheet Metal Co., 2 Squires St., Cortland, N. Y. (Radiator grille.)
Erie Mfg. Co., 2635 S. Wabash Ave., Chicago 16, Ill.
Hamlin Metal Products Co., Exchange at Water St., Akron, Ohio.
Helms Industrial Development Co., 2145 Edgewood St., N.E., Grand Rapids, Mich.
Houdaille-Hershey Corp., Decatur Div., 800 E. Garfield St., Decatur, Ill.
Hutchinson Co., 5931 St. Vincents Ave., Shreveport, La. "Redi-Fit."
Lincoln Metal Products Corp., 179 South St., Newark, N. J. (Radiator, for Ford cars.)
Logan Co., 201 N. Buchanan St., Louisville 6, Ky.
Mullins Mfg. Co., 605 S. Ellsworth St., Salem, Ohio. (Truck and tractor.)
Perfection Automotive Products Corp., 925 W. Elizabeth St., Detroit 1, Mich.
Shaw Co., Joseph, 6225 Benore Rd., Toledo 12, Ohio.
Snyder Mfg. Co., 22nd & Ontario Sts., Philadelphia 40, Pa. (Radiator and trunk.)
Turner Equipment Co., 261 Hastings St., Detroit 26, Mich. "Champion." (Grille, for trucks; sole distributors, Trucksteel Co., Union Commerce Bldg., Cleveland 14, Ohio.)
Van Auken, Inc., 520 W. Eight Mile Rd., Detroit 20, Mich.
Voltz Bros., Inc., 2520 Indiana Ave., Chicago 16, Ill. "Stur-dee."

GUARDS, Splash

Ace Rubber Products, Inc., 100 Beech St., Akron, Ohio.
Buckeye Reliner Producing Co., 637 N. Jackson St., Lima, Ohio.
Richlite Mfg. Co., 2326 S. Indiana Ave., Chicago 16, Ill.
Signal Mfg. Co., 69 Bennett St., Lynn, Mass.
Tingley-Reliance Rubber Co., 903 Ross St., Rahway, N. J. "C.O.T."

GUIDES, Valve

Allied Motor Parts Co., Fox Theatre Bldg., Detroit, Mich.
Aluminum Industries, Inc., 2438 Beckman St., Cincinnati 25, Ohio.
American Auto Parts Co., 919 Bonham Ave., Columbus 3, Ohio.
Automotive Replacements, Inc., 55 E. 26th St., Chicago 16, Ill. (For Ford and Chevrolet cars.)
Burd Piston Ring Co., Tenth St. & 23rd Ave., Rockford, Ill.
Elgin Machine Works, 412 N. State St., Elgin, Ill.
Ertel Machine Co., 2045 Martindale Ave., Indianapolis 7, Ind.
Evco Products Co., 160 W. 62nd St., New York 23, N. Y.
Hub City Iron Co., 218 First Ave., S. W., Aberdeen, S. D.
International Parts Corp., 11th & State Sts., Chicago 5, Ill.
King Quality Products Co., 2320 Marconi St., St. Louis 10, Mo.
McQuay-Norris Mfg. Co., 2320 Marconi St., St. Louis, Mo.
Perfect Parts, Inc., 55 Amsterdam Ave., New York 23, N. Y.
Sealed Power Corp., 500 Sanford St., Muskegon, Mich.
Speedway Products Co., 1402 E. 20th St., Indianapolis 7, Ind.
Standard Automotive Parts Co., Nims St., Muskegon, Mich.
Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio. (Graphited.)
Toledo Steel Products Co., 3300 Summit St., Toledo 11, Ohio.
White Machine Works, 1401 Bellevue Ave., Eau Claire, Wis. "Superior."
Wohlert Corp., 700 E. Grand River Ave., Lansing 6, Mich.
Zoerman-Clark Mfg. Co., Jackson, Mich. (For Ford cars.)

HAMMERS, Pneumatic

Aro Equipment Corp., Bryan, Ohio.
Chambersburg Engineering Co., Derbyshire St., Chambersburg, Pa. "Ceco-Drop."
Erie Foundry Co., 1253 W. 12th St., Erie, Pa.
Independent Pneumatic Tool Co., 175 State St., Aurora, Ill. "Thor."
Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y.
Keller Tool Co., 1333 Fulton St., Grand Haven, Mich.
Lobdell Co., P. O. Box 1108, Wilmington 99, Del. "Nazel."
Schramm, Inc., Virginia & Garfield Aves., West Chester, Pa.
Watervliet Tool Co., 1349 Broadway, Albany 1, N. Y.
Williams, White & Co., Third Ave. & Eighth St., Moline, Ill.

HAMMERS, Portable Electric

Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.
Independent Pneumatic Tool Co., 175 State St., Aurora, Ill. "Thor-Nado."
Millers Falls Co., Greenfield, Mass.
Milwaukee Electric Tool Co, 5316 W. State St., Milwaukee 8, Wis.
Stanley Electric Tool Div. of Stanley Works, 480 Myrtle St., New Britain, Conn.
Syntron Co., 495 N. Lexington Ave., Homer City, Pa.

HARDWARE, Bus

Automotive Spring Inc., 2627 Magnolia Ave., Detroit 8, Mich.
Attwood Brass Works, 745 Front St., Grand Rapids, Mich.
Bath Co., Cyril, Metal Form Div., E. 70th St. & Machinery Ave., Cleveland 3, Ohio.
Eberhard Mfg. Co., Div. Eastern Malleable Iron Co., Evarts Ave., Cleveland 4, Ohio.
Electric Service Mfg. Co., 17th & Cambria Sts., Philadelphia32, Pa. "Keystone."
Excel Corp., 1120 N. Main St., Elkhart, Ind. "XL." (Stanchions.)
Kirk & Blum Mfg. Co., 2819 Spring Grove Ave., Cincinnati, Ohio. "Steelflex."
Moore & Co., Samuel, Mantua, Ohio. "Rub-Rub." (Stanchions and grab rails.)
Tompkins, H. S., 82 Dey St., New York 7, N. Y.

HARDWARE, Truck Body

Ackerman-Blaesser-Fezzey, Inc., 1258 Holden Ave., Detroit 2, Mich.
Ainsworth Mfg. Corp., 2200 Franklin St., Detroit 7, Mich.
American Forging & Socket Co., P. O. Box 120, Pontiac, Mich.
Arcade Mfg. Div., Rockwell Mfg. Co., 1212 E. Shawnee St., Freeport, Ill. (Refrigerator truck body.)
Attwood Brass Works, Inc., 745 Front St., Grand Rapids, Mich. (Also trailer.)
Atwood Vacuum Machine Co., 2500 N. Main St., Rockford, Ill.
Auld Co., D. L., Fifth Ave. & Fifth St., Columbus, Ohio.
Campbell Co., A. S., 161 Prescott St., East Boston 28, Mass.
Cinch Mfg. Co., 1026 S. Homan St., Chicago 24, Ill.
Cleveland Hardware & Forging Co., 3200 E. 79th St., Cleveland 4, Ohio.
Decker Co., Richard M., 919 N. Michigan Ave., Chicago, Ill. (Door latches.)
Detroit Harvester Co. Dura Div., 4500 Detroit Ave., Toledo, Ohio.
Douglas & Lomason Co., 5836 Lincoln Ave., Detroit 8, Mich.
Eastern Malleable Iron Co., 112 Bridge St., Naugatuck, Conn.
Eberhard Mfg. Co., Div. Eastern Malleable Iron Co., Evarts Ave., Cleveland 4, Ohio.
Excel Corp., 1120 N. Main St., Elkhart, Ind. "XL." (Sashes, for autos and buses.)
Ferro Stamping & Mfg. Co., 1367 Franklin St., Detroit, Mich.
Hansen Mfg. Co., A. L., 5037 Ravenswood Ave., Chicago 40, Ill. (Commercial body.)
Houdaille-Hershey Corp., Decatur Div., 800 E. Garfield St., Decatur, Ill.
Jacob Co., F. L., 1043 Spruce St., Detroit 1, Mich.
Jarvis Div. of Dehler-Jarvis Corp., 1501 Paris Ave., Grand Rapids 2, Mich.
Keeler Brass Co., 955 Godfrey Ave., Grand Rapids, Mich.
Kinnear Mfg. Co., 2100-20 Fields Ave., Columbus 16, Ohio. (Steel rolling doors.)
Kneuer Tail Board Co., 126 Van Buren St., Newark 5, N. J. (Spaceless tailboard hardware.)
Majestic Handle Co., 2515 S. Wabash Ave., Chicago, Ill.
Metal Craft Co., 3300 Doris Ave., Detroit 6, Mich.
Protectoseal Co., 1920 S. Western Ave., Chicago 8, Ill. (Fuel tank fittings.)
Queen City Forging Co., Tennyson & Dumont Sts., Cincinnati 26, Ohio.
Reid Products, Div. of Standard Products Co., 2130 W. 110th St., Cleveland, Ohio. (Door supports and latches.)
Richlite Mfg. Co., 2326 S. Indiana Ave., Chicago 16, Ill.
Rockford Metal Products Co., 716 Cedar St., Rockford, Ill.
Servwell Products Co., 6519 Euclid Ave., Cleveland 3, Ohio. (Fender braces and bolts.)
Soss Mfg. Co., 21777 Hoover Rd., Detroit 13, Mich.
Standard-Thomson Corp., 216 S. Main St., Dayton 2, Ohio. (Also hearse and ambulance.)
Stanley Works (Pressed Metal Div.), 195 Lake St., New Britain, Conn.
Stant Mfg. Co., 1620 Columbia St., Connersville, Ind.
Ternstedt Div. General Motors Corp., 6307 W. Fort St., Detroit 9, Mich.
Tompkins, H. S., 82 Dey St., New York 7, N. Y.
Yale & Towne Mfg. Co., 200 Henry St., Stamford, Conn.
Zink Corp., Howard, Fremont, Ohio. "Sure-Fit."

HEADLIGHT FOCUSING INSTRUMENTS

See Testers, Headlight

HEATERS, Engine Pre-Heating

Anchor Post Products, Inc., 6500 Eastern Ave., Baltimore 24, Md. "Fluid Heat." (Gasoline burning.)

Announcing the New 1950 Super-Service

DIAMOND T's

Three new Super Value Models blanket the 1½ to 5-ton field with Efficiency, Accessibility, Comfort and Safety *beyond all previous standards!*

NEW 1950 DIAMOND T'S

give you Super Value in "The Truck of Lowest Cost"

MODEL 420, 1½-3 TON MODEL 520, 2-4 TON MODEL 620, 2½-5 TON

NEW EFFICIENCY AND ECONOMY!

The last word in ultra-modern motor truck design for lowest cost per mile!

Front axle is now farther back under the engine—9¾" closer to rear of cab. This puts more weight on front wheels, distributes load more evenly. Truck turns quicker, in smaller circle, and driver and load get a better ride.

Improved Super-Service Engine has 4-point rubber mounting—larger exhaust manifold—under-hood air cleaner with outside air intake for warm weather—quieter 5-blade fan driven by *two* belts—dust-proof distributor with full-automatic advance—larger radiator with adjustable shroud.

Frame is heavier front and rear for extra strength.

UNMATCHED COMFORT AND SAFETY!

Wider, more comfortable all steel safety cab built to last for the life of the truck!

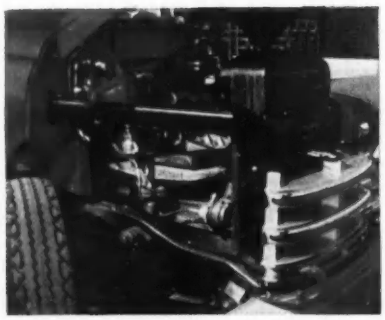
The sensational new Diamond T cab is almost *ten inches wider.* Heavy gauge steel is die-formed and welded for greatest possible strength and safety.

Greater visibility! Windshield has no center post—it's one single piece of *curved* laminated safety plate glass. Steering wheel position is adjustable several inches.

Posture-fitted cushions covered with heavy-duty 31-oz. Vinyl plastic. 4-inch adjustment for seating position.

Instruments grouped for easy reading. Arm rest on left door. Large sun visor. Two large ash trays.

REVOLUTIONARY ACCESSIBILITY!



"Quick Detachable" Fender Assembly saves time and money in engine servicing!

For all minor service and adjustments, just lift the hood! Carburetor, generator and distributor are easily reached.

Another Diamond T development also simplifies all work "below the cylinder head." In just 3 to 4 minutes, mechanic removes 4 bolts and takes off entire fender assembly. He's then *close* to his work. Such jobs as grinding valves, replacing manifold gaskets, and servicing fuel and water pumps, are done faster, more accurately, and at much less cost.

Hood, steering gear, radiator, and even the Super-Service Engine itself can also be quickly removed.

AMERICA'S HANDSOMEST MOTOR TRUCKS!

New Diamond T styling gives you incomparable prestige and advertising value!

Your customers may never see your offices or plant. But they *do* see your *trucks* and are influenced by their appearance. That's why Diamond T has always devoted extra effort to making its trucks the *best-looking* on the road.

The trim, sleek new beauty of the 1950 Diamond T's is *functional* beauty—the natural result of combining the utmost power, speed, efficiency and economy in a truck that is short-coupled for easier handling, smoother riding, and better weight distribution.

Buy—and *profit* by—the new Super-Service Diamond T's!

DIAMOND T MOTOR CAR COMPANY, CHICAGO

3811-2

DIAMOND T

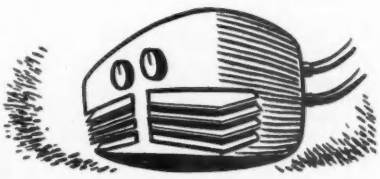
THE TRUCK OF LOWEST COST!

HEATERS, Engine Pre-Heating—cont.

Campbell Co., H. D., 316 N. 6th St., Rochelle, Ill.
Five Star Mfg. Co., 319 De Mers Ave., East Grand Forks, Minn. "Freeman." (Electric.)
Kim Hotstart Mfg. Co., 917 W. Broadway, Spokane 11, Wash. (Electric.)
Nemco Electric Co., 210 Second Ave., Seattle 4, Mich. "Hot-Head." (Electric.)
Perfection Stove Co., 7609 Platt Ave., Cleveland 4, Ohio. "Superfex." (Oil burning.)
Petroleum Heat & Power Co., Stamford, Conn. "Petro." (Gasoline burning, for buses and trucks.)
Surface Combustion Corp., 2375 Dorr St., Toledo 1, Ohio.
Synchro-Start Products, Inc., 1046 W. Fullerton Ave., Chicago 14, Ill.

HEATERS, Truck and Bus

Anchor Post Products, Inc., 6500 Eastern Ave., Baltimore 24, Md. "Fluid Heat." (Hot air, gasoline burning for buses, trucks and trailers.)
Auto Body Works, Pierce Ave. & Eighth St., Appleton, Wis. "Gatien." (Exhaust.)
Auto Radiator Mfg. Co., 2901 Indiana Ave., Chicago, Ill. "Eureka." (Hot water.)
Bishop & Babcock Mfg. Co., 4901 Hamilton Ave., N. E., Cleveland 14, Ohio. (Hot water.)
Burd Piston Ring Co., HaDees Heater Div., Tenth St. & 23rd Ave., Rockford, Ill. "Hadees." (Hot water, for autos, trucks and buses.)
Cargo Guard Co., 315 W. 4th St., Davenport, Iowa. (Cargo Guard Heater.)
Chicago Mfg. Co., 411 N. Trumbull Ave., Chicago, Ill. (Hot water.)
E. A. Laboratories, Inc., 696 Myrtle Ave., Brooklyn, N. Y. (Hot water.)
Eaton Mfg. Co., Heater Div., E. 65th St. & Central Ave., Cleveland, Ohio. (Hot water.)
Excel Auto Radiator Co., 320 E. 21st St., Chicago 16, Ill.
Fruehauf Trailer Co., 10940 Harper Ave., Detroit 32, Mich. "Trail-Aire." (Gasoline burning, for trailers.)
Harrison Radiator Div., General Motors Corp., Washburn & Walnut Sts., Lockport, N. Y. (Hot water.)
Hunter & Co., 1550 E. 17th St., Cleveland 14, Ohio. (Gasoline burning, hot water.)
Kysor Heater Co., Hayes St., Cadillac, Mich. (Hot water.)
Motorola, Inc., 4545 W. Augusta Blvd., Chicago 5, Ill. (Gasoline burning.)



Noblitt-Sparks Industries, Inc., Columbus, Ind. "Arvin." (Hot water.)
Novi Equipment Co., Novi, Mich. (Hot water.)
Petroleum Heat & Power Co., Stamford, Conn. "Petro." (Gasoline burning, for buses.)
Schofield, Inc., E. L., 2230 Seventh Ave., Rockford, Ill. (Hot water.)
Stampings, Inc., 315½ W. Fourth St., Davenport, Iowa. "Cargo Guard." (Automatic bottle gas, for trucks and trailers.)
Stewart-Warner Corp., South Wind Div., 1514 Drover St., Indianapolis 7, Ind. "Stewart-Warner South Wind." (Gasoline burning, for cars and trucks.)
Surface Combustion Corp., 2375 Dorr St., Toledo 1, Ohio.
Thermo-Aire Div. of Evans Products Co., Plymouth, Mich. "Evans." (Hot water, for trucks and buses; also heating and ventilating systems for buses and trucks.)
Tropic-Aire, Inc., 4501 W. Augusta Blvd., Chicago 51, Ill. (Hot water.)
Truck & Coach Heater Sales, 11611 Linwood Ave., Detroit 6, Mich.

HITCHES, TRAILER, See Couplers, Trailer

HOISTS, Chain

(See also Cranes, Portable)

Bridgeport Chain & Mfg. Co., 1201 Crescent Ave., Bridgeport, Conn. "Round."
Chrisholm-Moore Hoist Corp. (Div. Columbus McKinnon Chain Corp.), Fremont Ave., Tonawanda, N. Y. "Cyclone," "Blue-Boy."
Cleveland Crane & Engineering Co., 5866 E. 283rd St., Wickliffe, Ohio.
Ford Chain Block Div. of American Chain & Cable Co., Second & Diamond Sts., Philadelphia 22, Pa. "Tribloc."
Harrington Co., 17th & Callowhill Sts., Philadelphia 30, Pa. "Peerless."
Hobbs Co., Clinton E., 203 Chelsea St., Everett 49, Mass. "Red Line."
Marquette Mfg. Co., 307 E. Hennepin Ave., Minneapolis 14, Minn.
National Screw & Mfg. Co., Chester Hoist Div., Lisbon, Ohio. "Chester."
Reading Chain & Block Corp., 2140 Adams St., Reading, Pa.
Robbins & Myers, Inc., 1345 Lagonda Ave., Springfield, Ohio. "R & M."
Roeper Crane & Hoist Works, 1720 N. Tenth St., Reading, Pa.
Round & Son, David, Broadway & Henry Rd., Cleveland 5, Ohio. "Auto-Bloc," "Weston," "Superior," "Little Wizard."
Speidel Elevator Corp., W. Buttonwood & Gordon Sts., Reading, Pa. "Simplex."
Union Mfg. Co., 296 Church St., New Britain, Conn. "Union," "Acme."
Whiting Corp., 157th & Lathrop Sts., Harvey, Ill.
Wright Hoist Div. of American Chain & Cable Co., York, Pa.
Yale & Towne Mfg. Co., Philadelphia Div., 4530 Tacony St., Philadelphia 24, Pa.

HOISTS, Electric

(See also Blocks or Hoists, Chain)

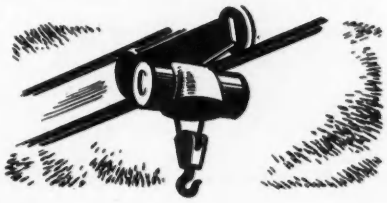
American Engineering Co., 2447 Aramingo Ave., Philadelphia 25, Pa. "Lo-Hed."
Chishalm-Moore Hoist Corp. (Div. Columbus McKinnon Chain Corp., Fremont Ave., Tonawanda, N. Y. "Comet," "Meteor."
Cleveland Crane & Engineering Co., 5866 E. 283rd St., Wickliffe, Ohio.
Conco Engineering Works, Div. of H. D. Conkey & Co., Mendota, Ill.
Detroit Hoist & Machine Co., 8227 Morrow St., Detroit 11, Mich. "Detroit," "Titan."
Electro Lift, Inc., 30 Church St., New York 7, N. Y.
Ford Chain Block Div. of American Chain & Cable Co., Second & Diamond Sts., Philadelphia 22, Pa. "Wippet."
Harnischfeger Corp., 4400 W. National Ave., Milwaukee, Wis. "P & H."
Harrington Co., 17th & Callowhill Sts., Philadelphia 30, Pa.
Hobbs Co., Clinton E., 203 Chelsea St., Everett 49, Mass. "Red Line."
Louden Machinery Co., 1102 West Ave., Fairfield, Iowa.
Northern Engineering Works, 2615 Atwater St., Detroit 7, Mich. "Hi-Lift."
Reading Chain & Block Corp., 2140 Adams St., Reading, Pa. "Everedy."
Robbins & Myers, Inc., 1345 Lagonda Ave., Springfield, Ohio. "R & M."
Roeper Crane & Hoist Works, 1720 N. Tenth St., Reading, Pa.
Round & Son, David, Broadway & Henry Rd., Cleveland 5, Ohio. "Rocket."
Sasgen Derrick Co., 3101 W. Grand Ave., Chicago 22, Ill.
Shepard Niles Crane & Hoist Corp., Montour Falls, N. Y. "Sprague," "Shepard."
Stephens-Adamson Mfg. Co., 150 Ridgeway St., Aurora, Ill.
Thomas Hoist Co., 20 S. Hoyne Ave., Chicago 12, Ill.
Whiting Corp., 157th & Lathrop Sts., Harvey, Ill.
Wright Hoist Div. of American Chain & Cable Co., York, Pa.
Yale & Towne Mfg. Co., Philadelphia Div., 4530 Tacony St., Philadelphia 24, Pa.

HOISTS, MONORAIL, See Cranes, Monorail

HOISTS, Pneumatic

Chicago Pneumatic Tool Co., 6 E. 44th St., New York, N. Y. "CP."
Curtis Pneumatic Machinery Div. of Curtis Mfg. Co., 1927 Kienlen Ave., St. Louis 20, Mo.
Detroit Hoist & Machine Co., 8227 Morrow St., Detroit 11, Mich.
Holmes Co., Ernest, 2505 E. 43rd St., Chattanooga, Tenn.
Independent Pneumatic Tool Co., 175 State St., Aurora, Ill. "Thor."
Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y.
Kehawke Mfg. Co., 718 S. Ellis St., Muncie, Ind.
Keller Tool Co., 1333 Fulton St., Grand Haven, Mich.
Northern Engineering Works, 2615 Atwater St., Detroit 7, Mich.

HOISTS, PORTABLE, See Cranes, Portable



HOISTS, Truck Body

Anthony Co., Streator, Ill. (Hydraulic.)
Cemco Industries, Inc., First National Bank Bldg., Galion, Ohio.
Commercial Shearing & Stamping Co., 1775 Logan Ave., Youngstown, Ohio. (Hydraulic, for dump bodies, snow plows, etc.)
Converto Co., 51st St. & Allegheny Valley R. R., Pittsburgh, Pa.
Cook Bros. Equipment Co., 3330 San Fernando Rd., Los Angeles 41, Calif.
Daybrook Hydraulic Corp., Bowling Green, Ohio.
Galion Allsteel Body Co., 500 S. Market St., Galion, Ohio. (Hydraulic.)
Gar Wood Industries, Inc., Wayne Div., Wayne, Mich. "GW."
General Body & Hoist Co., Paris & Garvey Sts., Everett, Mass. "Universal."
Heil Co., 3000 W. Montana St., Milwaukee 1, Wis. (Hydraulic.)
Hercules Steel Products Co., Box 477, Galion, Ohio.
Jungerson Dump Body Co., 3165 N. 30th St., Milwaukee, Wis.
Kewanee Mfg. Co., 1642 Burlington Ave., Kewanee, Ill.
Little Giant Products, Inc., 1530 N. Adams St., Peoria 3, Ill.
Marion Metal Products Co., Cheney Ave., Marion, Ohio.
National Truck Equipment Co., 225 Madison St., Waukesha, Wis. "Dump-O-Matic."
Penn Body Div., Hockensmith Corp., 1946 Penn St., Penn, Pa.
Perfection Steel Body Co., Perfection Bldg., Galion, Ohio. (Hydraulic.)
Rodenhausen's Excelsior Wagon Works, Ninth & Jefferson Sts., Philadelphia 22, Pa. (For coal trucks.)
St. Paul, Gar Wood Industries, Inc., 2207 University Ave., S. E., Minneapolis 14, Minn.
Six Wheels, Inc., 1550 E. 20th St., Los Angeles 11, Calif.
Stimmel Punch Co., 37-24 33rd St., Long Island City 1, N. Y.
Tweco Products Co., 1018 E. English St., Wichita 1, Kan. "Tweco," "Twecotong."

HOISTS, VEHICLE LIFTING, See Lifts, Vehicle

HOLDERS, Electrode

Chicago Tool & Engineering Co., 3383 S. Chicago Ave., Chicago, Ill. "Palmgren."
Dockson Co., C. H., 3839 Wabash Ave., Detroit 8, Mich.
Jackson Products, 31739 Mound Rd., Warren, Mich.
Lincoln Electric Co., Coit Rd. & Kirby Ave., Cleveland 1, Ohio.
Mallory & Co., P. R., 3029 E. Washington St., Indianapolis 6, Ind.
Marquette Mfg. Co., 307 E. Hennepin Ave., Minneapolis 14, Minn.
Tolman Mfg. Co., 19 W. Third St. (South Boston), Boston 27, Mass.
Tweco Products Co., 1018 E. English St., Wichita 1, Kan. "Tweco," "Twecotong."
US Electric Welder Corp., 1258 Dorr St., Toledo 7, Ohio.

HONES, Cylinder

Ammco Tools, Inc., 2100 Commonwealth Ave., North Chicago, Ill. (Engine and brake.)
Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo. (Hydraulic and brake drum.)
Hyland Mfg. Co., 818 John St., Portsmouth, Ohio.
Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
Keystone Reamer & Tool Co., Millersburg, Pa.
Lisle Corp., 809 E. Main St., Clarinda, Iowa.
Micromatic Hone Corp., 8100 Schoolcraft St., Detroit 4, Mich. "Hydrohones," "Microhones," "Micromatic."

HONES, Cylinder—cont.

Peterson Co., Paul, 1313 W. Randolph St., Chicago 7, Ill. "Webco." (Hydraulic brake.)
Rottler Boring Bar Co., 1727 First Ave., S., Seattle 4, Wash.
Storm-Vulcan, Inc., 2504 Commerce St., Dallas 1, Tex.
Sunnen Products Co., 7910 Manchester Ave., St. Louis 17, Mo.
Supco Products Corp., S. Bayview Ave., Amityville, L. I., N. Y. (Brake.)
Thermoid Co., 200 Whitehead Rd., Trenton 6, N. J.
Van Norman Co., 3640 Main St., Springfield 7, Mass.
Waterbury Tool Div. of Vickers, Inc., 188 E. Aurora St., Waterbury 91, Conn. (Engine and brake.)
Wilco Products, Inc., 595 Valley St., Orange, N. J. (Hydraulic brake.)
Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K.R.W." (For Ford cars.)

HONES, Small Bore

(For piston pins, brake cylinders, bushings, etc.)

Ammco Tools, Inc., 2100 Commonwealth Ave., North Chicago, Ill.
Beard Tool Co., L. O., Andrew & Mill Sts., Lancaster, Pa. (Brake cylinder, piston pin and ring pin bushings.)
Calvan Machine Products, Inc., 809 S. Water St., Jackson, Mich. (Brake cylinder.)
Eis Automotive Corp., Middletown, Conn. (Brake cylindeer.)
Evans Reamer & Machine Co., 5490 Dunham Rd., Maple Heights, Ohio. (Piston pin.)
Kennedy Service Tools Co., P. O. Box 38, Mogadore, Ohio. (Brake cylinder.)
Keystone Reamer & Tool Co., Millersburg, Pa. (Piston pin.)
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio.
Lisle Corp., 809 E. Main St., Clarinda, Iowa. (Brake cylinder and piston pin.)
Micromatic Hone Corp., 8100 Schoolcraft St., Detroit 4, Mich. "Hydrohones," "Microhones," "Micromatic."
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich. (Brake cylinder.)
New Britain Machine Co., 140 Chestnut St., New Britain, Conn. (Brake cylinder.)
Peterson Co., Paul, 1313 W. Randolph St., Chicago 7, Ill. "Webco." (Piston pin.)
Precision Hone Co., 840 Anderson St., Detroit 17, Mich. "Honette." (Piston pin, brake cylinder, bushing, etc.; "Brakehone," brake cylinder.)
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. (Piston pin.)
Staple Engineering Co., 1315 S. Woodward Ave., Birmingham, Mich.
Sunnen Products Co., 7910 Manchester Ave., St. Louis 17, Mo. (Piston pin.)
Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo.
Waterbury Tool, Div. of Vickers, Inc., 188 E. Aurora St., Waterbury 91, Conn. (Piston pin.)

HOOKS, Towing

Cleveland Hardware & Forging Co., 3200 E. 79th St., Cleveland 4, Ohio.
Holland Hitch Co., 430 W. 18th St., Holland, Mich.

HORN RELAYS, See Relays, Horn and Light

HORNS, Air

Bendix-Westinghouse Automotive Air Brake Co., 901 Cleveland Rd., Elyria, Ohio.
Buell Mfg. Co., 919 W. 49th Pl., Chicago 9, Ill.
E. A. Laboratories, Inc., 696 Myrtle Ave., Brooklyn 5, N. Y. "Supertone Twins."
Strombos Co., 4525 12th St., Detroit 8, Mich.

HORNS, Electric

Delco-Remy Div., General Motors Corp., Anderson, Ind. "Klaxon."
E. A. Laboratories, Inc., 696 Myrtle Ave., Brooklyn, N. Y.
Edwards Co., Norwalk, Conn.
Electric Auto-Lite Co., Bay Mfg. Div., Bay City, Mich.
Jubilee Mfg. Co., 1929 S. 20th St., Omaha 9, Neb. "Jubilee," "Bugler," "Broadcaster," "Fog-Horn," "Hi-Lo-Tone," "Multi-tone," "Three Star," "Gold Medal," "Bomber," "Challenger," "Rival," "Streamline," "Toot-a-Tune."
Spartan Automotive Div., Sparks-Withington Co., W. North St., Jackson, Mich.

HORNS, Siren

(For ambulances, police and fire department apparatus)

American-La France-Foamite Corp., 100 E. La France St., Elmira, N. Y.
Buckeye Iron & Brass Works, P. O. Box 883, Dayton 1, Ohio.
E. A. Laboratories, Inc., 696 Myrtle Ave., Brooklyn, N. Y. (Electric.)
Sterling Siren Fire Alarm Co., 53 Allen St., Rochester, N. Y. (Electric.)

HORNS, Vacuum Operated

E. A. Laboratories, Inc., 696 Myrtle Ave., Brooklyn, N. Y.
Grover Products Co., 1221 S. Hope St., Los Angeles 15, Calif.
Trico Products Corp., 817 Washington St., Buffalo 3, N. Y. "Trico Claireon."

HORSES and TRESTLES, See Stands, Adjustable

HOSE, Air Brake

Acme Rubber Mfg. Co., E. State St., Trenton, N. J.
Grey-Rock Div. of Raybestos-Manhattan, Inc., Manheim, Pa.
Hewitt Rubber Div., Hewitt-Robbins, Inc., 240 Kensington Ave., Buffalo 5, N. Y.
Raybestos-Manhattan, Inc., Manhattan Rubber Div., 61 Willet St., Passaic, N. J. "Manhattan."
Raybestos Div. of Raybestos-Manhattan, Inc., Stratford, Conn.

HOSE, Air, Tire Inflating (Rubber and Fabric)

Acme Rubber Mfg. Co., E. State St., Trenton, N. J.
Anchor Coupling Co., 342 N. Fourth St., Libertyville, Ill.
Atlantic Metal Hose Co., 107 W. 64th St., New York, N. Y. "Red Air."
Balcrank, Inc., Disney St. near Marburg, Cincinnati, Ohio.
Boston Woven Hose & Rubber Co., P. O. Box 1071, Boston 3, Mass. "Bull Dog."
Chatsworth Mfg. Co., Chatsworth, Ga. "Chamco."
Continental Rubber Works, 1902 Liberty St., Erie, Pa. "Enduro," "Vitalic."
Crown Products Co., P. O. Box 1046, Omaha, Neb.
De Vilbiss Co., 300 Phillips Ave., Toledo 1, Ohio.
Diamond Rubber Co., Div. of B. F. Goodrich Co., 500 S. Main St., Akron 8, Ohio.
Eastman Mfg. Co., 1002 N. 11th St., Manitowoc, Wis.
G. M. Co. Mfg. Co., 43-10 21st St., Long Island City, L. I., N. Y.
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo. "Gates Vulco."
Goodyear Tire & Rubber Co., E. Market St., Akron 16, Ohio.
Grey-Rock Div. of Raybestos-Manhattan, Inc., Manheim, Pa.
Hewitt Rubber Div., Hewitt-Robbins, Inc., 240 Kensington Ave., Buffalo 5, N. Y.
Hite Mfg. Co., 100 Market St., Chattanooga 2, Tenn.
Koehler Rubber & Supply Co., 3865 Carnegie Ave., Cleveland 15, Ohio. "Holdfast."
Raybestos-Manhattan, Inc., Manhattan Rubber Div., 61 Willet St., Passaic, N. J. "Manhattan."
Miller Rubber Co., Div. of B. F. Goodrich Co., 500 S. Main St., Akron, Ohio.
Ohio Rubber Co., 300 Ben Hur Ave., Willoughby, Ohio. "Orco."
Quaker Rubber Corp., Tacony & Comly Sts., Philadelphia 24, Pa.
Raybestos Div. of Raybestos-Manhattan, Inc., Stratford, Conn.
Thermoid Co., Whitehead Rd., Trenton 6, N. J.
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.

HOSE, Gasoline

Aeroquip Corp., 300 S. East Ave., Jackson, Mich.
Atlantic Metal Hose Co., 107 W. 64th St., New York, N. Y. "Smoothflex." (Synthetic rubber.)
Boston Woven Hose & Rubber Co., P. O. Box 1071, Boston 3, Mass. "Bull Dog."
Continental Rubber Works, 1902 Liberty St., Erie, Pa. "Vitalic."
De Vilbiss Co., 300 Phillips Ave., Toledo 1, Ohio. (Synthetic rubber.)
Diamond Rubber Co., Div. of B. F. Goodrich Co., 500 S. Main St., Akron 18, Ohio.
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo. "Gates Vulco."
Goodrich Co., B. F., 500 S. Main St., Akron, Ohio.
Hewitt Rubber Div., Hewitt-Robbins, Inc., 240 Kensington Ave., Buffalo 5, N. Y.
Metal Hose & Tubing Co., Dover, N. J. "National." (Synthetic rubber.).
Mulconroy Co., 54th & Jefferson Sts., Philadelphia 31, Pa. "Mulconroy," "New Process."
Ohio Rubber Co., 300 Ben Hur Ave., Willoughly, Ohio. "Orco."
Pennsylvania Flexible Metallic Tubing Co., 72nd St. & Powers Lane, Philadelphia 42, Pa. "Penflex."
Quaker Rubber Corp., Tacony & Comly Sts., Philadelphia 24, Pa.
Raybestos-Manhattan, Inc., Manhattan Rubber Div., 61 Willet St., Passaic, N. J. "Manhattan."
Resistoflex Corp., 39 Plansoen St., Belleville 9, N. J.
Thermoid Rubber, Div. of Thermoid Co., Whitehead Rd., Trenton, N. J.
Titeflex, Inc., 672 Frelinghuysen Ave., Newark 5, N. J.
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.

HOSE, Grease (High Pressure)

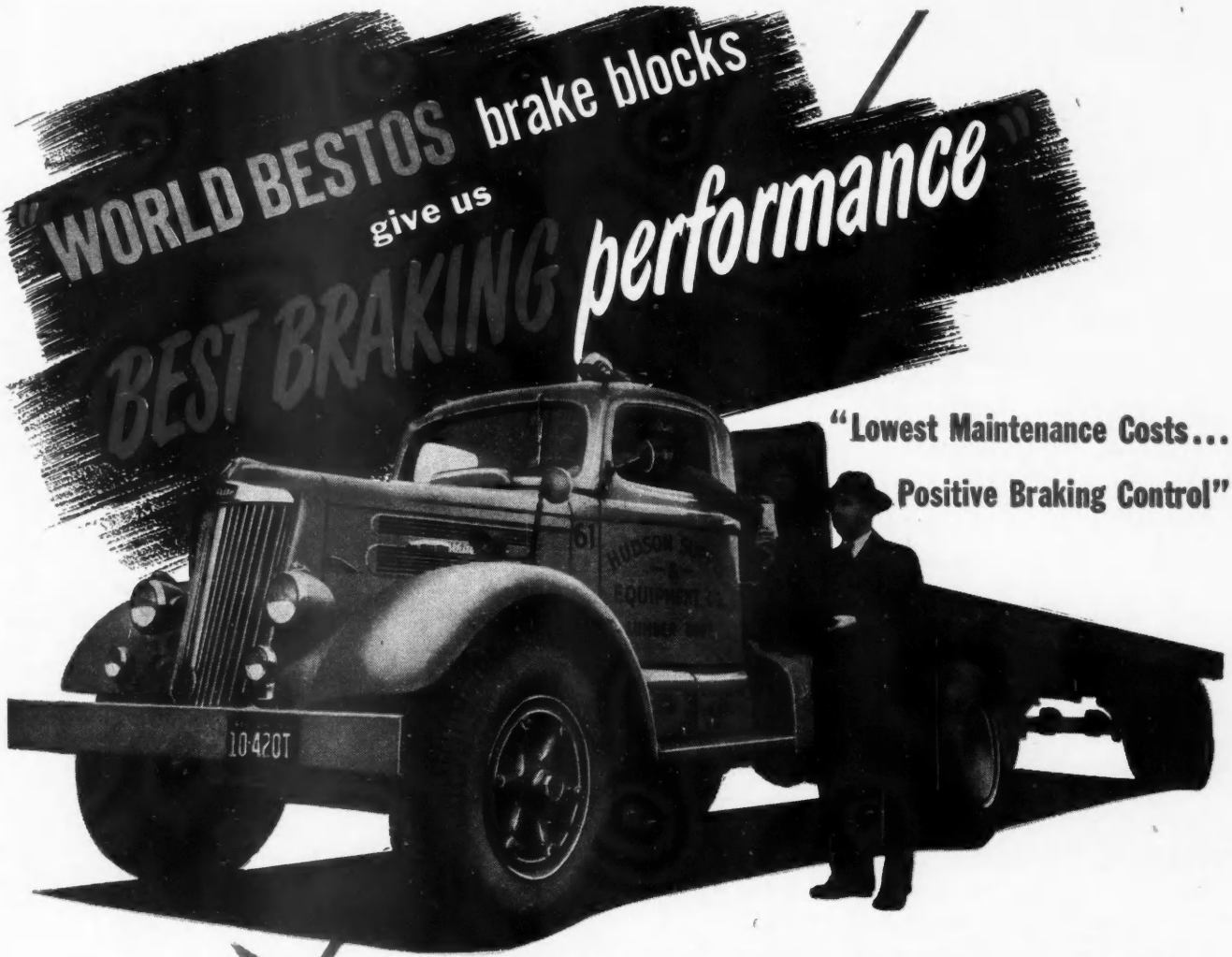
Adams Grease Gun Corp., 54 W. 21st St., New York, N. Y.
Aeroquip Corp., 300 S. East Ave., Jackson, Mich.
Anchor Coupling Co., 342 N. Fourth St., Libertyville, Ill.
Atlantic Metal Hose Co., 107 W. 64th St., New York, N. Y.
Balcrank, Inc., Disney St. near Marburg, Cincinnati, Ohio.
Continental Rubber Works, 1902 Liberty St., Erie, Pa.
Diamond Rubber Co., Div. of B. F. Goodrich Co., S. Main St., Akron 18, Ohio.
Eastman Mfg. Co., 1002 N. 11th St., Manitowoc, Wis.
Edelmann & Co., E., 2332 Logan Blvd., Chicago 47, Ill. "Leak-Not."
Gray Co., 60 11th Ave., N. E., Minneapolis 13, Minn. "Graco."
Norgren Co., C. A., 222 Santa Fe Drive, Denver 9, Colo.
Quaker Rubber Corp., Tacony & Comly Sts., Philadelphia 24, Pa.
Reda Mfg. Co., 311 Page Blvd., Springfield 4, Mass.
Titeflex, Inc., 672 Frelinghuysen Ave., Newark 5, N. J.
United States Air Compressor Co., 5300 Harvard Ave., Cleveland 5, Ohio.
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.
Universal Lubricating Systems, Inc., 747 Allegheny Ave., Oakmont, Pa.
Weatherhead Co., 300 E. 131st St., Cleveland 8, Ohio.

HOSE, Heater

Acme Rubber Mfg. Co., E. State St., Trenton, N. J.
Continental Rubber Works, 1902 Liberty St., Erie, Pa.
Crown Products Co., P. O. Box 1046, Omaha, Nebr.
Hewitt Rubber Div., Hewitt-Robbins, Inc., 240 Kensington Ave., Buffalo 5, N. Y.
Swan Rubber Co., 436 E. Mansfield St., Bucyrus, Ohio.
Velvac, Inc., 3530 W. Pierce St., Milwaukee 4, Wis.

HOSE, Hydraulic Brake

Bendix Products Div., Bendix Aviation Corp., 401 Bendix Drive, South Bend 20, Ind. "Bendix B-K."
Chicago Metal Hose Corp., 1315 S. Third Ave., Maywood, Ill. "Rex-Tube," "Rex-Weld."
Clawson & Bals, Inc., Holland, Mich.
Eis Automotive Corp., Middletown, Conn.
Everhot Products Co., 2001 W. Carroll Ave., Chicago 12, Ill. "Bundyflex."
Goodrich Co., B. F., 500 S. Main St., Akron 18, Ohio.
Grizzly Mfg. Co., 700 W. Caroline St., Paulding, Ohio.
Inland Mfg. Div.-General Motors Corp., 2727 Inland Ave., Dayton 1, Ohio. "Delco."
Motive Equipment Mfrs., Inc., 5253 Roosevelt Rd., Chicago 50, Ill. "Pilot."
National Ignition Mfg. Co., 521 W. 23rd St., New York, N. Y. "Nimco."
Raybestos-Manhattan, Inc., Manhattan Rubber Div., 61 Willet St., Passaic, N. J. "Manhattan."



● The Hudson Supply & Equipment Co. of Washington, D. C. is one of the largest building supply houses in the East. For delivery of their heavy materials and fuel oil they operate a fleet of 88 units composed of 58 trucks, 15 tractors and 15 trailers. A pace-setter for progressive operators everywhere who have standardized on World Bestos Blocks, Hudson has been a constant user for the past six years.

"World Bestos Brake Blocks give us the best braking performance, says Mr. James F. Hughes, Maintenance Manager. "On our regular hauls we encounter conditions that include city, open highway, and winding roads with steep grades. With World Bestos Blocks we are assured of minimum maintenance costs and positive braking control."

Available in formulations to meet every heavy duty braking need, World Bestos compounds wear slowly and evenly under the most severe braking conditions while providing a stable, resilient friction under all operating heats and pressures. For proof of their performance, reline with a set of World Bestos Brake Blocks and compare them with those you now use.

BRAKE LINING • BRAKE BLOCKS

WB WORLD BESTOS CORP.

7466

NEW CASTLE, INDIANA

1945-1

HOSE, Hydraulic Brake—cont.

Thermoid Co., Whitehead Rd., Trenton 6, N. J. (Booster.)
United Parts Mfg. Co., 1250 W. Van Buren St., Chicago, Ill.
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.
Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo.
Weatherhead Co., 300 E. 131st St., Cleveland 8, Ohio.

HOSE, Radiator

Acme Rubber Mfg. Co., E. State St., Trenton, N. J. "Acme Flexrite."
American Brakeblok Div., American Brake Shoe Co., 4600 Merritt Ave., Detroit 9, Mich.
Anchor Packing Co., 401 N. Broad St., Philadelphia 8, Pa. "Ankorite."
Asbestos Mfg. Co., E. Sabine St., Huntington, Ind. "Amco."
Atlas Asbestos Co., North Wales, Pa. "Bodygard."
Boston Woven Hose & Rubber Co., P. O. Box 1071, Boston 3, Mass. "Bull State." (Rubber and fabric.)
Buckeye Reliner Producing Co., 637 N. Jackson St., Lima, Ohio.
Continental Rubber Works, 1902 Liberty St., Erie, Pa. "Vitalic."
Cooper Tire & Rubber Co., Lima & Western Aves., Findlay, Ohio.
Crown Products Co., P. O. Box 1046, Omaha, Neb.
Dayton Rubber Co., 2342 W. Riverview Ave., Dayton 1, Ohio.
Diamond Rubber Co., Div. of B. F. Goodrich Co., 500 S. Main St., Akron 18, Ohio.
Durkee-Atwood Co., 215 Seventh St., N. E., Minneapolis 13, Minn.
Everhot Products Co., 2001 W. Carroll Ave., Chicago 12, Ill. "Everflex." (Bendable.)
Firestone Tire & Rubber Co., S. Main St., Akron, Ohio.
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo. "Gates Vulco."
Goodrich Co., B. F., 500 S. Main St., Akron, Ohio.
Goodyear Tire & Rubber Co., E. Market St., Akron 16, Ohio.
Grey-Rock Div. of Raybestos-Manhattan, Inc., Manheim, Pa.
Holdfast Rubber Co., 1486 Lakewood Ave., S. E., Atlanta 1, Ga.
Johns-Manville, 22 E. 40th St., New York, N. Y. "J-M."
Kelly-Springfield Tire Co., Cumberland, Md.
Koehler Rubber & Supply Co., 3865 Carnegie Ave., Cleveland 15, Ohio. "Holdfast."
Mercer Rubber Co., Hamilton Square, N. J.
Miller Rubber Co., Div. of B. F. Goodrich Co., 500 S. Main St., Akron, Ohio.
Moore & Co., Samuel, Mantua, Ohio. "Rub-Rub."
National Brake Block Corp., 79 Madison Ave., New York, N. Y.
Norwalk Tire & Rubber Co., Belden Hill Ave., Norwalk, Conn.
Ohio Rubber Co., 300 Ben Hur Ave., Willoughby, Ohio. "Orco."
Quaker Rubber Corp., Tacony & Comly Sts., Philadelphia 24, Pa.
Rawhide Products Co., Michigan Ave., Kenilworth, N. J. "Gripper."
Raybestos Div. of Raybestos-Manhattan, Inc., Stratford, Conn.
Raybestos-Manhattan, Inc., Manhattan Rubber Div., 61 Willet St., Passaic, N. J. "Manhattan."
Rubbercraft Corp. of Cal., Ltd., 110 E. 17th St., Los Angeles, Calif.
Schwartz Rubber Corp., R. H., 3708 Payne Ave., Cleveland 14, Ohio. "Fits-All."
Thermoid Co., Whitehead Rd., Trenton 6, N. J.
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.
Velvac Inc., 3530 W. Pierce St., Milwaukee 4, Wis.

HOSE, Vacuum Brake

Asbestos Mfg. Co., E. Sabine St., Huntington, Ind.
Bendix Products Div., Bendix Aviation Corp., 401 Bendix Drive, South Bend 20, Ind.
Continental Rubber Works, 1902 Liberty St., Erie, Pa. "Vitalic."
Grey-Rock Div. of Raybestos-Manhattan, Inc., Manheim, Pa.
Grizzly Mfg. Co., 700 W. Caroline St., Paulding, Ohio.
Hewitt Rubber Div., Hewitt-Robbins, Inc., 240 Kensington Ave., Buffalo 5, N. Y.
Quaker Rubber Corp., Tacony & Comly Sts., Philadelphia 24, Pa.
Raybestos Div. of Raybestos-Manhattan, Inc., Stratford, Conn.
Raybestos-Manhattan, Inc., Manhattan Rubber Div., 61 Willet St., Passaic, N. J. "Manhattan."
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.

HOSE, Welding

(See also Cable, Welding)

Acme Rubber Mfg. Co., E. State St., Trenton, N. J.
Air Reduction Sales Co., Lincoln Bldg., 60 E. 42nd St., New York 17, N. Y. "Airco-Twin."
Atlantic Metal Hose Co., 107 W. 64th St., New York 25, N. Y.
Burdett Oxygen Co. of Cleveland, Inc., 3300 Lakeside Ave., Cleveland 14, Ohio. "Burdox."
Cincinnati Rubber Mfg. Co., Franklin Ave., Norwood, Cincinnati 12, Ohio. "Losant."
Continental Rubber Works, 1902 Liberty St., Erie, Pa. "Vitalic."
De Vilbiss Co., 300 Phillips Ave., Toledo 1, Ohio. (Rubber and fabric.)
Dockson Co., C. H., 3839 Wabash Ave., Detroit 8, Mich.
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo. "Gates Vulco."
Goodrich Co., B. F., 500 S. Main St., Akron, Ohio.
Goodyear Tire & Rubber Co., E. Market St., Akron 16, Ohio.
Grey-Rock Div. of Raybestos-Manhattan, Inc., Manheim, Pa.
Hewitt Rubber Div., Hewitt-Robbins, Inc., 240 Kensington Ave., Buffalo 5, N. Y.
Imperial Brass Mfg. Co., 1234 W. Harrison St., Chicago 7, Ill.
Linde Air Products Co., 30 E. 42nd St., New York 17, N. Y. "Oxweld." (Rubber.)
Mulconroy Co., 54th & Jefferson Sts., Philadelphia 31, Pa. (Oxy-acetylene.)
National Cylinder Gas Co., 840 N. Michigan Ave., Chicago 11, Ill. "NCG."
Ohio Rubber Co., 300 Ben Hur Ave., Willoughby, Ohio. "Orco."
Quaker Rubber Corp., Tacony & Comly Sts., Philadelphia 24, Pa.
Raybestos Div. of Raybestos-Manhattan, Inc., Stratford, Conn.
Raybestos-Manhattan, Inc., Manhattan Rubber Div., 61 Willet St., Passaic, N. J. "Manhattan."
Thermoid Co., Whitehead Rd., Trenton 6, N. J.
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.

HUBS, Wheel

Budd Co., Wheel Div., 12141 E. Charlevoix Ave., Detroit 14, Mich.
Defiance Screw Machine Products, Div. of Serrick Corp., 733 Perry St., Defiance, Ohio.
Dittmer Gear & Mfg. Co., 193 Grand St., Lockport, N. Y.
Kay-Brunner Steel Products, Inc., 999 Meridian Ave., Alhambra, Cal. (For disc wheels.)
Kelsey-Hayes Wheel Co., 3600 Military Ave., Detroit 32, Mich.
Motor Wheel Corp., 701 E. Saginaw St., Lansing 3, Mich.
Shuler Axle Co., 2901 S. Second St., Louisville 8, Ky.

HYDRAULIC FLUID, See Fluid, Hydraulic Brake and Shock Absorber

HYDROMETERS, Battery and Coolant

Beck, Oscar, 4-6 Courthouse St., Newark 2, N. J.
Chaslyn Co., 1952 Irving Park Rd., Chicago 13, Ill. "Chaslyn," "S O S."

Eagle Electric Mfg. Co., 23-10 Bridge Plaza South, Long Island City, N. Y.
Edelmann & Co., E., 2332 Logan Blvd., Chicago 47, Ill. "Batrometer," "Kant Stick," "Break-Not," "Zero-Tester," "Freez-D-Tector."
Freas Glass Works, Francis L., 140 E. Ninth Ave., Conshohocken, Pa. "Clearview," "Freas."
General Scientific Equipment Co., 27th & Huntingdon Sts., Philadelphia 32, Pa.
Imperial Brass Mfg. Co., 1234 W. Harrison St., Chicago 7, Ill. "Imperial K."
Kennedy Service Tools Co., P. O. Box 31, Mogadore, Ohio.
Kimble Glass Div. of Owens-Illinois Glass Co., P. O. Box 1035, Toledo 1, Ohio.
Kocour Co., 4800 S. St. Louis Ave., Chicago 32, Ill.
Monarch Insulated Wire Co., 491 Broadway, New York 12, N. Y.
Murray Corp., Towson 4, Md.
Precision Thermometer & Instrument Co., 1465 Brandywine St., Philadelphia 30, Pa. "Princo."
Tagliabue Corp., C. J., 614 Frelinghuysen Ave., Newark 5, N. J. "Tag."
Victor Instrument Mfg. Co., 33 W. 60th St., New York 23, N. Y.
Weidenhoff, Inc., Joseph, 4340 W. Roosevelt Rd., Chicago 24, Ill.

IGNITION TOOLS, See Tools, Ignition

INJECTOR SYSTEMS, Gasoline & Diesel Engine

Aircraft & Diesel Equipment Corp., 4401 Ravenswood Ave., Chicago 40, Ill. "Adeco."
American Bosch Corp., 3664 Main St., Springfield 7, Mass. (Pumps.)
Diesel Engrg. & Mfg. Corp., 200 N. Laflin St., Chicago 7, Ill. "Demco." (Diesel.)
Diesel Equipment Div., General Motors Corp., 2100 Burlingame Ave., S.W., Grand Rapids 2, Mich.
Ex-Cell-O Corp. (Fuel Injection Div.), 1200 Oakman Blvd., Detroit 32, Mich. "XLO." (For airplanes.)
Scintilla Magneto Div., Bendix Aviation Corp., Sherman Ave., Sydney, N. Y. "Bendix-Scintilla."
Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio. "Vitameter."

INSTRUMENTS, Distributor Testing

Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13F, Mich. "Syncrograph."
Automotive Specialty Corp., 1562 DeKalb Ave., Brooklyn 27, N. Y. "Tasco."
Electric Heat Control Co., 9115 Inman Ave., Cleveland 5, Ohio. "King."
Electro Products Co., 445 E. 189th St., New York 58, N. Y.
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.
Lanagan & Hoke, 431 E. Collom St., Philadelphia 44, Pa.
Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ill.
Weidenhoff, Inc., Joseph, 4340 W. Roosevelt Rd., Chicago, Ill. "Distrib-U-Scope."
Wells Mfg. Co., 200 W. Division St., Fond du Lac, Wis.

INSTRUMENTS, Electrical Circuit Testing

(See also Analyzers, Trouble)

Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13F, Mich.
Automotive Specialty Corp., 1562 DeKalb Ave., Brooklyn 27, N. Y. "Tasco."
Berg-Gibson Mfg. Co., 817 E. 17th St., Kansas City 8, Mo. "B & G."
Electric Heat Control Co., 9115 Inman Ave., Cleveland 5, Ohio. "King."
Electro Products Co., 4456 E. 189th St., New York 58, N. Y. "Trouble Shooter," "Acroset," "Coilmaster."
General Electric Co., 1 River Rd., Schenectady 5, N. Y.
Gould Storage Battery Corp., First National Bank Bldg., St. Paul 1, Minn. "Kathanode."
Hoyt Electrical Instrument Works, 292 Main St., Cambridge 42, Mass. (Sole distributors, Burton-Rogers Co., 292 Main St., Cambridge 42, Mass.)
Ideal Industries, Inc., 1014 Park Ave., Sycamore, Ill.
Kennedy Service Tools Co., P. O. Box 38, Mogadore, Ohio.
Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
Lanagan & Hoke, 431 E. Collum St., Philadelphia 44, Pa.
Littelfuse, Inc., 4757 N. Ravenswood Ave., Chicago 40, Ill. "Ignition Fritz," "Tattelite."
McColpin-Christie Corp., 4922 S. Figueroa St., Los Angeles 37, Cal.
Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich. "Mapco."

Dead Engines

butter no parsnips

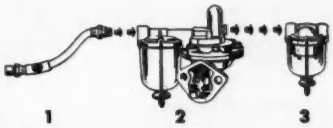
THE AC FUEL PUMP SYSTEM HELPS KEEP YOU OUT OF TROUBLE

Whether you haul goods or people, you lose money when engines go dead.

That's why practically all operators of gas-powered trucks and buses rely on AC Fuel Pumps for an unfailing supply of gas to the carburetor. No other fuel pump has such an amazing record of reliability.

Naturally, it's true economy to replace and to inspect the pumps at regular intervals for pressure and flow.

And for complete 3-way fuel protection, use the other two units of the AC Fuel Pump System . . . the AC Flexible Gasoline Line and the AC Gasoline Strainer.



1. Leaky fuel lines are not only dangerous, but cause faulty operation of the Fuel Pump. Install a new **AC Flexible Gasoline Line** when you replace your Fuel Pump. 2. **AC Fuel Pump**, Heart of the Fuel System. 3. **AC Gasoline Strainer** keeps dirt and water out of carburetor, promotes easy starting and protects delicate carburetor parts. Your fuel system needs one.

AC FUEL PUMP SYSTEM

AC SPARK PLUG DIVISION • GENERAL MOTORS CORPORATION

2215-1

INSTRUMENTS, Electrical Circuit Testing—cont.

Martindale Electric Co., 1340 Hird Ave., Cleveland 7, Ohio.
Mercury Battery Charger Co., 719 Wyandotte St., Kansas City, Mo.
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.
Powercraft Corp., 2502 S. Wabash Ave., Chicago, Ill. "Powerflo." (Sole distributors, Leterstone Sales Co., 2515 S. Wabash Ave., Chicago, Ill.)
Schauer Mfg. Corp., 2060 Reading Rd., Cincinnati 2, Ohio. "Electrox."
Scintilla Magneto Div., Bendix Aviation Corp., Sherman Drive, Sidney, N. Y. "Bendix-Scintilla."
Shurhit Products, Inc., Waukegan, Ill.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.
Standard Motor Products, Inc., 3718 Northern Blvd., Long Island City, L. I., N. Y. "Blue Streak."
Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ill.
T. & H. Mfg. Co., 811 E. 31st St., Kansas City 3, Mo.
Triple-A-Specialty Co., 2101 Walnut St., Chicago 12, Ill. "Silver Beauty."
Turnsignal Corp., 400 E. Rittenhouse St., Philadelphia 44, Pa. "Turnco."
Weidenhoff, Inc., Joseph, 4340 W. Roosevelt Rd., Chicago 24, Ill.
Wells Mfg. Corp., 200 W. Division St., Fond du Lac, Wis.
Westinghouse Electric Corp., 306 Fourth Ave., Pittsburgh 30, Pa.
Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K.R.W."
Wood Co., Frank N., 344 W. Main St., Waukesha, Wis. "Trucut." (Armature testers.)

INSTRUMENTS, Engine Testing

Electro Products Co., 445 E. 189th St., New York 58, N. Y. "Motor Peaker."
Kent-Moore Organization, 5-105 General Motors, Detroit, Mich.
Mercury Battery Charger Co., 719 Wyandotte St., Kansas City 6, Mo.
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
Photocon Research Products, 1062 N. Allen Ave., Pasadena 7, Calif. "Spark Protractor." (For spark advance.)
Shurnit Products, Inc., Waukegan, Ill.
Weidenhoff, Inc., Joseph, 4340 W. Roosevelt Rd., Chicago 24, Ill.
Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K.R.W."

INSTRUMENTS, Storage Battery Testing

(See also Hydrometers)

Baldor Electric Co., 4357 Duncan Ave., St. Louis 10, Mo. "Handy."
Bowers Battery & Spark Plug Co., Reading, Pa.
Electric Heat Control Co., 9115 Inman Ave., Cleveland 5, Ohio.
General Electric Co., Appl. & Mdse. Dept., Bridgeport, Conn. "Tungar."
Gould Storage Battery Corp., Depew, N. Y. "Kathanode."
Hickok Electrical Instrument Co., 10514 Dupont Ave., Cleveland, Ohio. "Hickok Chargicator."
Hoyt Electrical Instrument Works, 292 Main St., Cambridge 42, Mass. (Sole distributors, Burton-Rogers Co., 292 Main St., Cambridge 42, Mass.)
Jordan Electrical Mfg. Co., 222 N. Second St., Minneapolis 1, Minn.
McColpin-Christie Corp., 4922 S. Figueroa St., Los Angeles 37, Calif. "C & C."
Powercraft Corp., 2502 S. Wabash Ave., Chicago, Ill. "Powerflo." (Sole distributors, Leterstone Sales Co., 2515 S. Wabash Ave., Chicago, Ill.)
Rex Mfg. Co., 415 Lake Ave., Racine, Wis.
Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ill.
Weidenhoff, Inc., Joseph, 4340 W. Roosevelt Rd., Chicago 24, Ill.
Weston Electrical Instrument Corp., 614 Frelinghuysen Ave., Newark, N. J.
Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K.R.W."

INSULATION, For Electrical Parts (Liquid)

American Rust Proof Co., 8 W. 40th St., New York, N. Y. "Vatu-Lac." (For ignition systems and battery terminals.)
Barton Products Co., 2765 St. Mary's Court, Chicago 47, Ill.
Dow Corning Co., Midland, Mich. "DC."
Ensign Products Co., 3528 E. 76th St., Cleveland 5, Ohio.
Flintkote Co., 30 Rockefeller Plaza, New York 20, N. Y.
General Electric Co., Chemical Dept., 1 Plastic Ave., Pittsfield, Mass. "G-E."
Ignition-Ite Products Co., 7146 E. Dinwiddie St., Downey, Calif. (For ignition systems; sole distributors, Eagle Distributing Co., 6411 Hollywood Blvd., Los Angeles 28, Calif.)
Radiator Specialty Co., 1722 Dowd St., Charlotte 1, N. C. "Ignition Seal." (For ignition systems.)
Sure-Rite Products Corp., 2731 N. Sixth St., Philadelphia 33, Pa. (For ignition systems.)
U. S. Industrial Chemicals, Inc., 60 E. 42nd St., New York 17, N. Y. "Pib."
V-O Mfg. Co., 13245 Sherman Way, North Hollywood, Calif. (Ignition.)
Watts-Wagner Co., 113 Frelinghuysen Ave., Newark 5, N. J. "Electricote." (For ignition systems, etc.)
Wolfe-Kote Co., 820 Penn Ave., Sheboygan, Wis.

INSULATION, Felt, Hair, Paper, Etc.

American Hair & Felt Co., 1828 Merchandise Mart, Chicago, Ill. (Hair and felt.)
Armstrong Cork Co., Industrial Div., Lancaster, Pa.
Arvey Corp., 6401 E. Nevada Ave., Detroit 12, Mich. "Nodrum," "Reflex." (Felt.)
Auburn Mfg. Co., Pease Ave. & Stack St., Middletown, Conn.
Burlington Mills Inc., Burlington, Wis. "Bur-Tex." (Plastic coated trunk lining.)
Continental-Diamond Fibre Co., Newark 10, Del. "Vulcoid."
Detroit Gasket & Mfg. Co., 12640 Burt Rd., Detroit 23, Mich. "DG."
Dry-Zero, Div. of American Hair & Felt Co., 1828 Merchandise Mart, Chicago, Ill. (For roofs, doors, body panels and refrigerator truck bodies.)
Flintkote Co., 30 Rockefeller Plaza, New York 20, N. Y. (Felt and paper.)
Great American Industries, Inc., Rubatex Div., Bedford, Va. (Cellular rubber.)
Gustin Bacon Mfg. Co., Kansas City, Mo. Ultralite 75 Fiberglass.
Johns-Manville Corp., 22 E. 40th St., New York 16, N. Y. (Rock wool.)
Korfund Co., 48-02 32nd Pla., Long Island City 1, N. Y. ("Elasto-Rib" cork and rubber; "Base Isolator," "Panel Seismo Damper," "Balanced Seismo Damper.")
Owens Corning Fiberglass Corp., Dept. 960, Toledo 1, Ohio.
Ruberoid Co., 500 Fifth Ave., New York 18, N. Y. (Felt.)
Silvercote Products Inc., 161 E. Erie St., Chicago 11, Ill. (For refrigerator bodies.)
Spaulding Fibre Co., 310 Wheeler St., Tonawanda, N. Y. "Spauldo." (Paper, for motors.)
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y. "U. S. Flotofoam." (Plastic foam.)
Western Felt Works, 4029 Ogden Ave., Chicago 23, Ill.
Wilson & Co., 4100 S. Ashland Ave., Chicago, Ill. "Naturzone." (Sole distributors, Automotive Materials Corp., Fisher Bldg., Detroit, Mich.)
Wood Conversion Co., 1981 First National Bank Bldg., St. Paul, Minn. "Balsam-Wool." (Wood fibre.)

INSULATION, Paper

Brandywine Fibre Products Co., 1441 Poplar St., Wilmington, Del.
Continental-Diamond Fibre Co., Newark 10, Del. "Diamond."
Franklin Fibre-Lamitex Corp., 195 E. 12th St., Wilmington, Del.
Keystone Roofing Mfg. Co., Franklin St. & P. R. R., York, Pa. "Conewago."
National Vulcanized Fibre Co., Maryland Ave. & Beech St., Wilmington 99, Del. "Peerless."
Taylor Fibre Co., Norristown, Pa.
Wilmington Fibre Specialty Co., P. O. Drawer 1028, Wilmington, Del. "Fyberoid."

IRONS, Soldering (Electric)

American Electrical Heater Co., Woodward, Cass & Burroughs Aves., Detroit 2, Mich. "American Beauty."
Belden Mfg. Co., 4647 W. Van Buren St., Chicago 44, Ill.
Eagle Electric Mfg. Co., 23-10 Bridge Plaza South, Long Island City, N. Y.
General Electric Co., 1 River Rd., Schenectady 5, N. Y.
Good-All Electric Mfg. Co., 112 W. First St., Ogallala, Neb.
Ideal Industries, Inc., 1014 Park Ave., Sycamore, Ill.
Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
Kwikheat Mfg. Co., 3732 San Fernando Bldg., Glendale 4, Calif.
Lenk Mfg. Co., 30 Cummington St., Boston 15, Mass.
Linde Air Products Co., 30 E. 42nd St., New York 17, N. Y. "Prest-O-Lite."
Luma Electric Equipment Co., P. O. Box 132, Toledo 1, Ohio.
Peerless Novelty Co., First & Fulton Sts., Grand Haven, Mich.
Reinhard-McCabe Co., 123 14th Ave., S., Minneapolis 4, Minn. "Glo-Point."
Revere Copper and Brass, Inc., Rome Mfg. Co. Div., Railroad St., Rome, N. Y.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. "Blue Point."
Stanley Tools, 111 Elm St., New Britain, Conn.
Turnsignal Corp., 400 E. Rittenhouse St., Philadelphia 44, Pa. "Turnco."
Vulcan Electric Co., 88 Holten St., Danvers, Mass. "Vulcan," "Mercury."
Wall Mfg. Supply Co., P., P. O. Box 71, Grove City, Pa. "Harmic."
Weller Mfg. Co., 828 Packer St., Easton, Pa. "Duratip," "Flextip," "Solderite," "Speed Iron."

JACKS, Spring

(For use in removing spring shackle bolts and in spring lubricating)

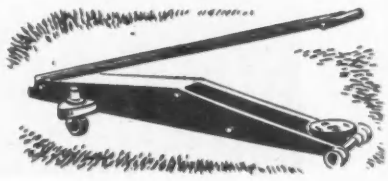
American Hydraulics, Inc., 1822 Wildwood Ave., Sheboygan, Wis.
Blackhawk Mfg. Co., 5325 W. Rogers St., Milwaukee 1, Wis.
Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
Robison Air Jack Co., 2345 Jerrold Ave., San Francisco 24, Calif.
Stephenson Foundry & Mfg. Co., J. O., 548 E. Fort St., Detroit 6, Mich. "Step-Draulic."

JACKS, Transmission

Accurate Parts Mfg. Co., 12435 Euclid Ave., Cleveland 6, Ohio.
Calco Steel Products Co., 23 New England Ave., Dorchester 24, Mass.
General Automotive Tool and Equipment Co., 130 Orchard St., Grand Ledge, Mich. "Hydra-Lift."
Stephenson Foundry & Mfg. Co., J. O., 548 E. Fort St., Detroit 6, Mich. "Step-Draulic."
Walker Mfg. Co. of Wis., Michigan & Hamilton Sts., Racine, Wis.

JACKS, Vehicle (Hydraulic)

Ajax Auto Parts Co., 1201 Michigan Blvd., Racine, Wis.
American Hydraulics, Inc., 1822 Wildwood Ave., Sheboygan, Wis.
Auto Specialties Mfg. Co., 557 Graves St., St. Joseph, Mich. "Drednaut."
Bee-Line Co., Box 569, Davenport, Iowa.
Blackhawk Mfg. Co., 5325 W. Rogers St., Milwaukee 1, Wis. "Blackhawk," "Lightning Lift."



Buda Co., 154th St. & Commercial Ave., Harvey, Ill.
Buehrle & Son, Inc., Philip H., 168 Manalapan Rd., Spotswood, N. J. "E-Z."
Drum Jack Corp., 3781 E. 77th St., Cleveland 5, Ohio. Drum Safety Jack.
Duff-Norton Mfg. Co., 2709 Preble Ave., N. S., Pittsburgh, Pa. Lo-Hite."
General Fluid Machinery Co., Canal St., Huntsville, Ala. "Hydro-Steel."
Grand Machining Co., 8301 Lyndon St., Detroit 21, Mich.
Hein-Werner Corp., 1200 National Ave., Waukesha, Wis.
Hyde Park Iron Works Co., 931 E. 51st St., Brooklyn 3, N. Y.
Joyce-Cridland Co., 2027 E. First St., Dayton 3, Ohio. (Hand and floor.)
Jubilee Mfg. Co., 1929 S. 20th St., Omaha 7, Neb. (Bumper.)
Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
Kingston Products Corp., 1400 N. Webster St., Kokomo, Ind.

Increasing Numbers
OF
INDIVIDUAL and FLEET OPERATORS
are choosing
Model 260XW Tractor
BROCKWAY
FRANKLIN LAKE DAIRY
Pioneers of Guernsey Products
Sealtest
FROZEN FOODS
GENERAL ICE CREAM CORPORATION
Mobilgas
Mobiloil
The Sign of Friendly Service
BROCKWAY MOTOR COMPANY, INC.
Factory & General Office
Cortland, N. Y.
Branches & Dealers
in Principal Cities
Export Dept., 44 Whitehall St.,
New York, N. Y.

3814-1

JACKS, Vehicle Hydraulic—cont.

Lee Engineering Co., 505 Central Ave., Pawtucket, R. I. "Auto-Lift."
March Engrg. Co., Oshkosh, Wis.
Manley Mfg. Div., American Chain & Cable Co., E. Princess & Charles Sts., York, Pa.
Manzel, Inc., 315 Babcock St., Buffalo 10, N. Y.
Reliable Jack Div. of Dayton Malleable Iron Co., 1401 W. Second St., Dayton, Ohio.
Scott-Atwater Mfg. Co., 2901 E. Hennepin Ave., Minneapolis 13, Minn.
Seale, Inc., Homer T., 5320 Alhambra Ave., Los Angeles 32, Calif. "Sealco."
Smith Equipment Corp., Herb., 414 Taylor Bldg., Rochester, N. Y.
Stephenson Foundry & Mfg. Co., J. O., 548 E. Fort St., Detroit 6, Mich. "Step-Draulic."
Templeton, Kenly & Co., 1020 S. Central Ave., Chicago 44, Ill. "Simplex." (Truck.)
Vulcan Mfg. Co., 400 W. Third St., Winona, Minn. "Vulcan Ace-Hy," "Vulcan Imperial," "Vulcan Royal."
Walker Mfg. Co. of Wis., Michigan & Hamilton Sts., Racine, Wis.
Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill.
Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K.R.W."
Zamax Mfg. Co., W. Broad St., & Maple Ave., Haverstraw, N. Y. "Lift-King," "Pump-A-Jack."

JACKS, Vehicle (Mechanical)

A & B Sales Corp., 39 Long Ave., Hillside 5, N. J. "Master-Mite," "Mity-Mite."
Ajax Auto Parts Co., 1201 Michigan Blvd., Racine, Wis.
Automatic Steel Products, Inc., Spun Steel Div., 1201 Camden Ave., S. W., Canton 6, Ohio. "Spunsteel."
Auto Specialties Mfg. Co., 557 Graves St., St. Joseph, Mich. "Drednaut," "Auscolift."
Barco Machine Products Co., 1975 E. 65th St., Cleveland 30, Ohio.
Carnahan & Henry, Inc., 1100 E. Douglas Ave., Wichita, Kans. "Vee Jack."
Caster Mold & Machine Co., 1171 Wooster Rd., N., Barberton, Ohio. "King of Jacks," "Queen of Jacks." (Scissor type.)
Chatsworth Mfg. Co., Chatsworth, Ga. "Chameo."
Dalton Foundries, Inc., Warsaw, Ind. "Big Boy."
Duff-Norton Mfg. Co., 2709 Preble Ave., N. S. Pittsburgh, Pa.
Hyde Park Iron Works Co., 931 E. 51st St., Brooklyn 3, N. Y.
Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
Oil-Purifier, Inc., 3450 Broadway, Oakland, Calif. "Car-Life."
Reliable Jack Div. of Dayton Malleable Iron Co., 1401 W. Second St., Dayton, Ohio.
Saginaw Steering Gear Div., General Motors Corp., Clinton & Hamilton Sts., Saginaw, Mich. (Bumper.)
Shaw Co., Joseph, 6225 Benore Rd., Toledo 12, Ohio. "E-Z Lift."
So-Lo Jack Co., Attleboro, Mass.
Stewart Mfg. Co., 3205 E. Washington St., Indianapolis 1, Ind. (Scissor type.)
Stimmel Winch Co., 37-24 33rd St., Long Island City 1, N. Y. "Kelly Albany."
Templeton, Kenly & Co., 1020 S. Central Ave., Chicago 44, Ill. (Truck.)
Walker Mfg. Co. of Wis., Michigan & Hamilton Sts., Racine, Wis.
Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill.
Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K. R. W."
Woodworth Specialties Corp., 239 Water St., Binghamton, N. Y. "Dependable," "Easy-lift." (Bumper.)

JIGS, Connecting Rod Aligning

Ammco Tools, Inc., 2100 Commonwealth Ave., North Chicago, Ill.
Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
Lee Co., K. O., Congress at First Ave., S. E., Aberdeen, S. D. "Knock Out."
Lisle Corp., 809 E. Main St., Clarinda, Iowa.
Miller Mfg. Co., 5919 Tireman Ave., Detroit 4, Mich.
Shepard-Thomason Co., 2023 W. Gage Ave., Los Angeles 44, Calif. "Thomason."
Stevens Walden, Inc., 475 Shrewsbury St., Worcester, Mass.
Storm-Vulcan Inc., 2504 Commerce St., Dallas 1, Tex.
Sunnen Products Co., 7910 Manchester Ave., St. Louis 17, Mo.
Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K. R. W."

JIGS, Ring Gear Riveting

Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio.
Manley Mfg. Div., American Chain & Cable Co., E. Princess & Charles Sts., York, Pa.
Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill.

KEYS, Valve Stem

Aluminum Industries, Inc., 2438 Beekman St., Cincinnati 25, Ohio.
Bailey Products Corp., Union City, Ind.
Dorman Products Inc., 1004 Sycamore St., Cincinnati 2, Ohio.
Jambor Tool & Stamping Co., 3057 N. 30th St., Milwaukee 10, Wis. "Bull Dog."
King Quality Products Co., 2320 Marconi St., St. Louis 10, Mo.
McQuay-Norris Mfg. Co., 2320 Marconi St., St. Louis, Mo.
Raymond Mfg. Co., Div. of Associated Spring Corp., 226 S. Center St., Corry, Pa.
Sealed Power Corp., 500 Sanford St., Muskegon, Mich.
Toledo Steel Products Co., 3300 Summit St., Toledo 11, Ohio.
Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio.

KING PINS, See Pins, King

LACQUERS

(See also Enamels)

Acme White Lead & Color Works, 8250 St. Aubin Ave., Detroit 11, Mich. "Proxlin."
American Lacquer Solvents Co., Perkiomen Junction, Phoenixville, Pa. "Co-Loidal-Ac."
American Paint Co., 902 Larrabee St., Chicago 10, Ill. (Nitro-cellulose.)
Arco Co., 7301 Bessemer Ave., Cleveland 4, Ohio. "Arcozon."
Automotive Finishes, Inc., P. O. Box 457, Detroit 4, Mich. "C-Bel."
Automotive Finishes, Inc., P. O. Box 457, Northwestern Station, Detroit 4, Mich.
Baer Bros., 438 W. 37th St., New York, N. Y.
Baketite Corp., 30 E. 42nd St., New York 17, N. Y.
Beckwith-Chandler Co., Delancey & Rutherford Sts., Newark, N. J. "B/C."
Berry Bros., 211 Lieb St., Detroit, Mich. "Berryloid."
Briggs Mfg. Co., Refinishing Materials Div., 3001 Miller St., Detroit 11, Mich.
Brown Co., Andrew, 5400 District Blvd., Los Angeles 22, Calif. "Brolite," "Morblack."
Campbell Paint & Varnish Co., Div. Glidden Co., 106 Gratiot St., St. Louis 2, Mo. "Glidden Quality."
Day & Co., James B., 1872 Clybourn Ave., Chicago 14, Ill. "Daconite."
Ditzler Color Div., Pittsburgh Plate Glass Co., 8000 W. Chicago Ave., Detroit 4, Mich. "Ditz-Lac."
Donahue Varnish Co., F. J., 10586 Knodell Ave., Detroit 13, Mich.
du Pont de Nemours & Co., E. I. Refinish Sales Dept., Wilmington, Del. "Duco." (Pyroxylin.)
Finch, Ltd., Leo, 728 E. 59th St., Los Angeles, 1, Calif. "Leolac."
Flood & Conklin Co., 132 Chestnut St., Newark 5, N. J.
Forbes Finishes Div., Pittsburgh Plate Glass Co., 3800 W. 143rd St., Cleveland 11, Ohio. "Nitroloid." (Nitro-cellulose and Ethyl cellulose.)
Glidden Co., 1100 Madison Ave., Cleveland, Ohio. "Lacq."
Heath & Mulligan Mfg Co., 1833 S. Normal Ave., Chicago, Ill. "Dependable."
Hilo Varnish Corp., 54 Stewart Ave., Brooklyn 6, N. Y.
Illinois Bronze Powder Co., 2015 S. Clark St., Chicago 16, Ill. "Ilibronze."
Kay & Ess Co., Leo & Kiser Sts., Dayton, Ohio. "Superloid."
Lucas & Co., John, 1617 Pennsylvania Blvd., Philadelphia 3, Pa. "Lucote."
Martin-Senour Co., 2520 Quarry St., Chicago 8, Ill. "Hi-Solids." (Nitro-cellulose.)
Nason & Co., R. N., 151 Potrero Ave., San Francisco, Calif. "A. N. L."
Nikolas & Co., G. J., 1227 Van Buren St., Chicago 7, Ill. "Nik-O-Lac."
Oxidermo Products, Inc., Springport, Mich.
Pierce & Stevens, Inc., 710 Ohio St., Buffalo, N. Y. "P & S."
Pittsburgh Plate Glass Co., Paint Div., 2000 Grant Bldg., Pittsburgh 19, Pa. "Mimax."
Plasti-Kote, Inc., 425 Lakeside Ave., N.W., Cleveland 13, Ohio.
Pratt & Lambert, Inc., 75 Tonawanda St., Buffalo 7, N. Y. "Vitroloid."
Rinshed-Mason Co., 5935 Milford St., Detroit 10, Mich. "R-M." (Nitro-cellulose.)
Sewall Paint & Varnish Co., 1009 W. Eighth St., Kansas City, Mo. "Dural."
Sherwin-William Co., 101 Prospect Ave., N. W., Cleveland 1, Ohio. "Opex."
Standard Varnish Works, 2600 Richmond Terrace, Staten Island 3, N. Y. "Stand-Lac."
Steelcote Mfg. Co., 3418 Gratiot Ave., St. Louis 3, Mo.
Valentine & Co., 11 E. Lafayette Ave., Detroit 26, Mich. "Enamelac."
V.E.P. Co., 440 E. Lafayette Ave., Detroit 26, Mich. "Veco."
Willey Div.-Sun Chemical Corp., C. A., 100 Sixth Ave., New York 13, N. Y. "Wilcolac."
Zapon Div., Atlas Powder Co., Ludlow St., Stamford, Conn.

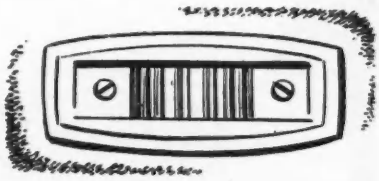
LAMP BULBS, Miniature Incandescent

Carlton Lamp Corp., 730 S. 13th St., Newark 3, N. J.
Lamp Dept. of General Electric Co., Nela Park, Cleveland, Ohio. "G. E."
Matchless Electric Co., 1423 W. Lake St., Chicago 7, Ill.
National Carbon Co., 30 E. 42nd St., New York 17, N. Y. "Eveready."
Save Lamp Co., 3687 Ash St., Baltimore 11, Md.
Sylvania Electric Products, Inc., Lighting Div., 60 Boston St., Salem, Mass.
Tung-Sol Lamp Works, Inc., 95 Eighth Ave., Newark 4, N. J.
Westinghouse Lamp Div., Westinghouse Electric Corp., MacArthur Ave., Bloomfield, N. J.

LAMP LENSES, See Lenses, Lamp

LAMPS, Back-Up, Clearance, Cowl, Dome, Fender, Tail, Parking and Stop

Akron Specialty Mfg. Co., 119 Ira Ave., Akron 1, Ohio. (Marker.)
American Automatic Devices Co., Throop, Harrison & Congress Sts., Chicago 7, Ill. "King Bee Hy-Power." (Tail, parking and clearance; also "King Bee Regular.")
Anthes Force Oiler Co., Ft. Madison, Iowa. (Tail, parking and clearance.)
Arnolt Motor Div., Arnolt Corp., Argonne Rd., Warsaw, Ind. (Back-up.)



Arrow Safety Device Co., Mt. Holly, N. J. (Tail, dome, parking and clearance.)
Bolser Corp., S. Main St., Cedar Falls, Iowa. (Clearance and marker.)
Bowman Automotive Plastics Co., 4316 W. 192nd St., Fairview Village 16, Ohio. (Tail.)
Brown Equipment & Mfg. Co., 1775 Broadway, New York, N. Y. "Marko-Lite."
Cole Automotive Products Co., 2644 S. Michigan Ave., Chicago 16, Ill. "Merit." (Clearance, for trucks, trailers and buses.)
Cox Mfg. Co., 111 S. Washington St., Angola, Ind. "Hartline." (Clearance.)
Delbar Products, Inc., Seventh & Spruce Sts., Perkasie, Pa.
Dietz Co., R. E., 60 Laight St., New York 13, N. Y. (Dome, back-up, tail, parking, running board and clearance.)
Do-Ray Lamp Co., 1458 S. Michigan Ave., Chicago 5, Ill. "Swa-Bak."
Electric Auto-Lite Co., Lamp Div., 4890 Spring Grove Ave., Cincinnati, Ohio. (Cowl, fender, tail and clearance.)
Electric Service Mfg. Co., 17th & Cambria Sts., Philadelphia 32, Pa. "Keystone."
Electroline Mfg. Co., 1975 E. 61st St., Cleveland 3, Ohio.
General Electric Co., Nela Park, Cleveland 12, Ohio.
Griffin Lamp Co., 401 S. Third St., Hamilton, Ohio. (Clearance, back-up, tail and marker.)
Grote Mfg. Co., Lafayette & Grandview Aves., Bellevue, Ky.; (Tail; back-up; dome; clearance; combination stop, tail and license bracket.)
Guide Lamp Div., General Motors Corp., 25th St. & Arrow Ave., Anderson, Ind.

MORE MILES • MORE SATISFACTION

with Belden

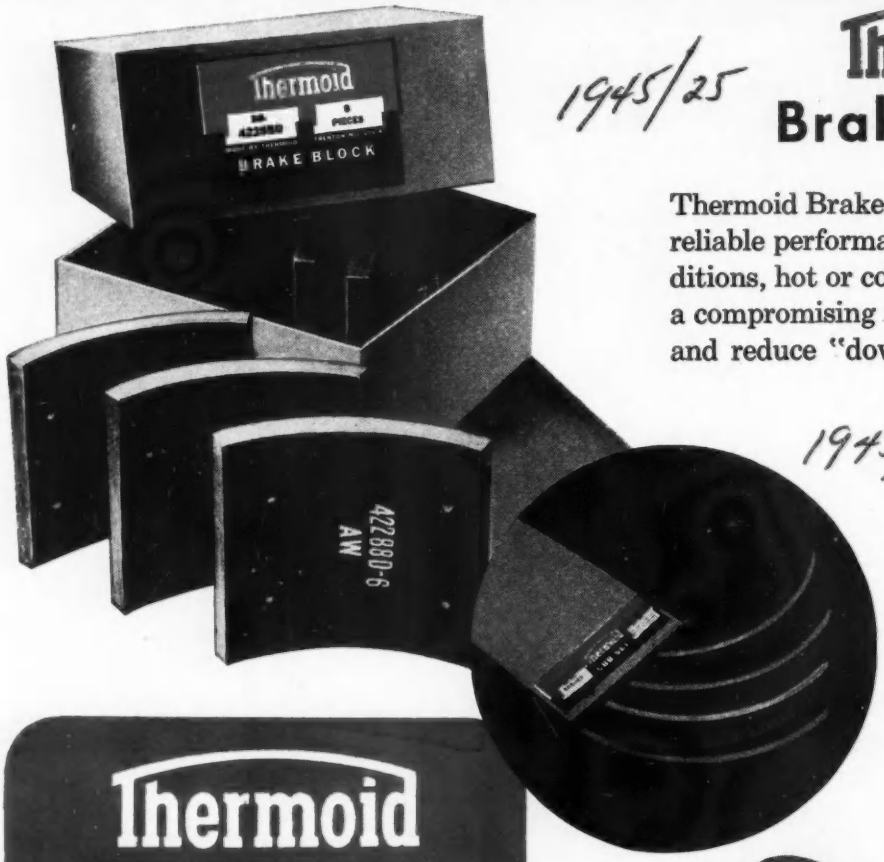
SPARK PLUG WIRES

Battery Cables • Spark Plug Wires
Lighting Wires
Cordlites, Extension Cords, and Tools

Belden *Automotive* **WIRE**

1531-1

Put Your Money on the



1945/25

Thermoid Brake Blocks

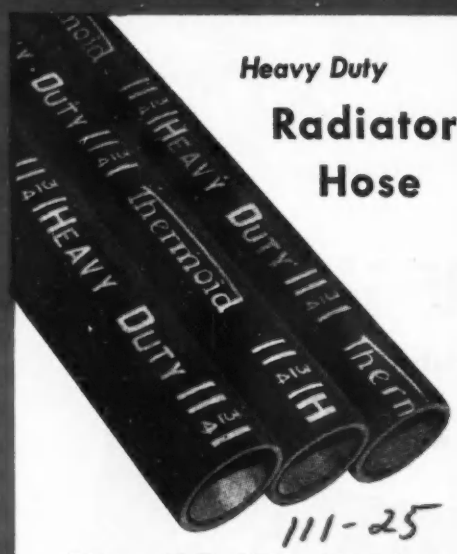
Thermoid Brake Blocks are made to give you reliable performance under all operating conditions, hot or cold, wet or dry—they are not a compromising adaptation. They last longer and reduce "downtime" maintenance costs.

1945/25

CBB Brake Lining Sets

For heavy duty applications requiring up to ½ inch thick braking materials, Thermoid CBB Sets are dual-friction, specially molded for long life and perfect performance.

Thermoid



Heavy Duty

Radiator Hose

111-25

Thermoid Radiator Hose has proven to be better where it counts—on the road, under the toughest conditions. Precision made with Multi-Ply wrap, Thermoid Radiator Hose is impervious to hot water and anti-freeze.

1911-25

Pre-Stretched

Fan Belts

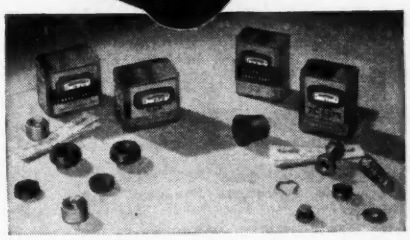
Thermoid's famous fan belt pre-stretching process *prevents* stretch, slip, wear and fail, the four steps that, in ordinary fan belts, mean added maintenance costs. Thermoid Fan Belts stay the correct size.

Thermoid Automotive and Industrial Products

Thermoid Line

Hydraulic Brake Parts

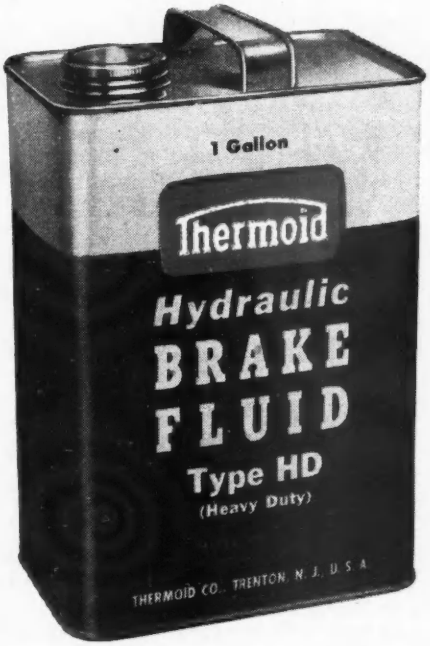
Built for Heavy Duty Service



Now—Thermoid, the first name in brake linings offers for regular and heavy duty applications the very latest engineering advances in hydraulic brake parts. Complete master and wheel cylinder assemblies as well as individually packaged master and wheel cylinder repair kits are regular items of the line. They're new — complete — second to none!

1945-50

Heavy Duty Hydraulic Brake Fluid



Thermoid Heavy Duty Brake Fluid equals or exceeds SAE specifications. It's SAFE—will not harm rubber or metal parts of the brake system, and will not swell rubber cups.

3851-50

Flows freely at –60° F; boiling point is 300° F. Assures constant, dependable hydraulic braking in all kinds of weather.

The Thermoid Line

Brake Linings • Clutch Facings • Fan Belts
Radiator Hose • Hydraulic Brake Parts and Fluid
Car Mats • Thermoid Precision Process Equipment

Thermoid Company, Trenton, New Jersey

(r)

LAMPS, Back-Up, Clearance, Cowl, Dome, Fender, Tail, Parking and Stop —cont.

Hall Lamp Co., C. M., 1035 Hancock Ave., E., Detroit, Mich. "Solar."
K-D Lamp Div., Noma Electric Corp., 1910 Elm St., Cincinnati 10, Ohio.
Kilborn-Sauer Co., Post Rd., Fairfield, Conn. "K-S."
Knight Co., Geo. C., 21820 Wyoming St., Detroit 26, Mich. (Courtesy.)
Kreger Mfg. Co., L. F., 540 W. 35th St., Chicago 16, Ill. (Clearance, for trucks.)
Loock & Co., R. J., 343 N. Gay St., Baltimore, Md. "R-J." (Parking.)
Lumidor Mfg. Co., 4801 E. 50th St., Los Angeles 11, Calif. (Back-up.)
McKee Glass Co., Bullitt Ave., Jeanette, Pa. (Dome.)
Monroe-Acme Co., 215 N. Aberdeen St., Chicago, Ill. "Norton," "Royal."
Norlipp Co., 5925 S. Lowe Ave., Chicago 21, Ill. (Clearance.)
Perfection Automotive Products Corp., 925 W. Elizabeth St., Detroit 1, Mich.
Pollak Corp., Joseph, 75 Freeport St., Boston 22, Mass. (Tail and clearance.)
Rosen & Co., A. W., 1801 First Ave., New York 28, N. Y. "Rosco." (Cowl, fender parking and clearance.)
S & M Lamp Co., 119 W. 36th Place, Los Angeles 54, Cal. (Tail, parking clearance, back-up and dome.)
See-Mor Lamp Co., 123 W. Pearl St., Cincinnati 2, Ohio.
Shaw Co., Joseph, 6225 Benore Rd., Toledo 12, Ohio. "Torpedo." (Parking.)
Sparton Automotive Div., Sparks-Withington, W. North St., Jackson, Mich. (Clearance, back-up, emergency.)
Standard-Thompson Corp., 216 S. Main St., Dayton 2, Ohio. (Back-up.)
Ternstedt Div., General Motors Corp., 6307 W. Fort St., Detroit 9, Mich. (Dome.)
U. S. Metal Products Co., 1045 Atlantic Ave., Brooklyn, N. Y. "U. S. Pioneer." (Back-up.)
U. S. Tool & Mfg. Co., 1528 Armitage Ave., Chicago 22, Ill. "Eagle Brand." (Clearance and tail.)
Unity Mfg. Co., 2909 Indiana Ave., Chicago 16, Ill. (Back-up.)
Yankee Metal Products Corp., 31 Grand St., Norwalk, Conn. (Fender, back-up, clearance, dome and tail.)

LAMPS, Drying, Baking and Heating

Arco Co., 7301 Bessemer Ave., Cleveland 4, Ohio.
Fostoria Pressed Steel Corp., N. Main St., Fostoria, Ohio. "Fostoria Evenray." (Infra-red.)
North American Electric Lamp Co., 1014 Tyler St., St. Louis 6, Mo. "Nalco-Drithern." (Infra-red.)
Trippe Mfg. Co., 266 W. 16th St., Chicago 8, Ill. (Infra-red.)
Westinghouse Lamp Div., Westinghouse Electric Corp., MacArthur Ave., Bloomfield, N. J.

LAMPS, Fog, Road and Spot

American Automatic Devices Co., Throop, Harrison & Congress Sts., Chicago 7, Ill. "King Bee Glasseal," "King-Bee Hi-Power."
Amesbury Metal Products Co., 39 Oakland St., Amesbury, Mass. (Spot.)
Appleton Electric Co., 1701 Wellington Ave., Chicago 13, Ill. "Appleton," "Lorraine." (Spot.)
Arnolt Motor Div., Arnolt Corp., Argonne Rd., Warsaw, Ind. "Ivalite." (Spot.)
Arrow Safety Device Co., Mt. Holly, N. J. (Fog.)
Auto Lamp Mfg. Co., 2909 S. Indiana Ave., Chicago 16, Ill. (Fog.)
Auto Radiator Mfg. Co., 2901 Indiana Ave., Chicago, Ill. "Eureka." (Fog and road.)
Carpenter Mfg. Co., 195 Master Light Bldg., Somerville, Boston 45, Mass. "Master-Lights," Roof-mounted, colored and flashing warning lights. "Roofmaster." Roof-mounted spot.
Casco Products Corp., 512 Hancock Ave., Bridgeport 2, Conn. (Spot.)
Dietz Co., R. E., 60 Laight St., New York 13, N. Y. (Fog and spot.)
Do-Ray Lamp Co., 1458 S. Michigan Ave., Chicago 5, Ill. "Nobby."
Electric Auto-Lite Co., Lamp Div., 4890 Spring Grove Ave., Cincinnati, Ohio.
Electric Auto-Lite Co., Mdse. Dept., Toledo 1, Ohio.
Electric Service Mfg. Co., 17th & Cambria Sts., Philadelphia 32, Pa.
Electroline Mfg. Co., 1975 E. 61st St., Cleveland 3, Ohio. (Fog.)
General Electric Co., Nela Park, Cleveland 12, Ohio.
Griffin Lamp Co., 401 S. Third St., Hamilton, Ohio. (Fog.)
Grote Mfg. Co., Lafayette & Grandview Aves., Bellevue, Ky (Fog.)
Guide Lamp Div., General Motors Corp., 25th St. & Arrow Ave., Anderson, Ind.
K-D Lamp Div., Noma Electric Corp., 1910 Elm St., Cincinnati 10, Ohio.
Kilborn-Sauer Co., Post Rd., Fairfield, Conn. "K-S."
Lamp Dept. of General Electric Co., Nela Park, Cleveland 12, Ohio. (Fog.)
Lumidor Mfg. Co., 4801 E. 50th St., Los Angeles 11, Calif. "Royal Lumidor," "Supreme Lumidor." (Fog.)
Monroe-Acme Co., 215 N. Aberdeen St., Chicago, Ill. "Norton," "Royal." (Road.)
Perfection Automotive Products Corp., 925 W. Elizabeth St., Detroit 1, Mich.
S & M Lamp Co., 119 W. 36th Place, Los Angeles 54, Calif.
Spartan Automotive Div., Sparks-Withington Co., W. North St., Jackson, Mich. (Fog.)
Standard-Thompson Corp., 216 S. Main St., Dayton 2, Ohio. "Mobilite." (Spot.)
Trippe Mfg. Co., 260 W. 16th St., Chicago 8, Ill. "Trippe Safetylight."
U. S. Metal Products Co., 1045 Atlantic Ave., Brooklyn, N. Y. "U. S. Pioneer." (Fog.)
Unity Mfg. Co., 2909 Indiana Ave., Chicago 16, Ill. ("Safetylight" Spot; "Unity" fog.)
Westinghouse Lamp Div., Westinghouse Electric Corp., MacArthur Ave., Bloomfield, N. J.
Yankee Metal Products Corp., 31 Grand St., Norwalk, Conn. (Also combination mirror and spot light.)

LAMPS, Tell-Tale (Rear Signal or Tail Lamp)

Cole-Hersee Co., 20 Old Colony Ave., Boston 20, Mass.
Douglas Mfg. Co., Railroad St., Bronson, Mich.
Signal-Stat Corp., 1430 Herkimer St., Brooklyn 33, N. Y.

LAMPS, Trouble, Battery Operated

BMC Mfg. Corp., 5 Griswold St., Binghampton, N. Y. (Plugs into light socket.)
Casco Products Corp., 1333 Railroad Ave., Bridgeport, Conn.
Cole-Hersee Co., 20 Old Colonoy Ave., Boston 20, Mass.
Douglas Mfg. Co., Railroad St., Bronson, Mich.
Eagle Electric Mfg. Co., 23-10 Bridge Plaza South, Long Island City, N. Y.
Guide Lamp Div., General Motors Corp., 25th St. & Arrow Div., General Motors Corp., 25th St. & Arrow Ave., Anderson, Ind. (Plugs into cigar lighter socket.)
K-D Lamp Co., 1910 Elm St., Cincinnati 10, Ohio.
Kilborn-Sauer Co., Post Rd., Fairfield, Conn. "K-S."
Precision Electric Tool & Mfg. Co., 98 Union St., Worcester, Mass.
Whitaker Cable Corp., 1301 Burlington Ave., North Kansas City 16, Mo.
U-C Lite Mfg. Co., 1050 W. Hubbard St., Chicago 22, Ill. "Big Beam."

LAMPS, Trouble (Electric)

Appleton Electric Co., 1701 Wellington Ave., Chicago 13, Ill. "Reelite."
Arrow Safety Device Co., Mt. Holly, N. J.
Black Mfg. Co., M., 300 N. Third St., Philadelphia 6, Pa. "B-Line."
Crescent Co., Pawtucket, R. I.
Eagle Electric Mfg. Co., 23-10 Bridge Plaza, S., Long Island City, N. Y.
General Electric Co., Appl. & Mdse. Dept., Bridgeport, Conn. "G-E."
Glade Mfg. Co., 1632 W. 75th Place, Chicago 20, Ill. "Climax," "Super."
K-D Lamp Co., 1910 Elm St., Cincinnati 10, Ohio.
Kliegl Bros. Universal Electric Stage Lighting Co., 321 W. 50th St., New York, N. Y.
Manhattan Coil Corp., 1486 Lakewood Ave., S. E., Atlanta 1, Ga.
Monarch Insulated Wire Co., 491 Broadway, New York 12, N. Y.
Ohio Parts Co., Theresa St. & Chouteau Ave., St. Louis 3, Mo.

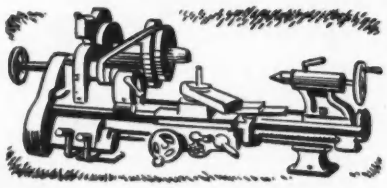
If you cannot find the product classification you seek, see "Specialized Products," on Page 254.

Packard Electric Div., General Motors Corp., Warren, Ohio. "Packard Port-O-Lite."
Revere Electric Mfg. Co., 6009 Broadway, Chicago 40, Ill.
Royal Electric Co., 95 Grand Ave., Pawtucket, R. I.
Save Lamp Co., 3687 Ash St., Baltimore 11, Md.
U-C Lite Mfg. Co., 1050 W. Hubbard St., Chicago 22, Ill. "Big Beam."

LANDING GEARS, TRAILER, See Gears, Landing Trailer

LATHES, Bench

Atlas Press Co., 1842 N. Pitcher St., Kalamazoo 13D, Mich.
Blount Co., J. G., Woodland St., Everett 49, Mass.
DaAll Co., 254 N. Laurel Ave., Des Plaines, Ill.
Elgin Tool Works, 67 N. State St., Elgin, Ill.
Hardinge Bros., Inc., 1418 College Ave., Elmira, N. Y. (Precision.)
Hjorth Lathe & Tool Co., 12 Beacon St., Woburn, Mass. (Precision.)
LeBlond Machine Tool Co., R. K., Madison & Edwards Rds., Cincinnati 8, Ohio.
Pratt & Whitney, Div. Niles-Bement-Pond Co., Charter Oak Blvd., West Hartford 1, Conn.
Rivett Lathe & Grinder Inc., 20 Riverview Rd., Brighton, Boston, Mass.
Seneca Falls Machine Co., 314 Fall St., Seneca Falls, N. Y. "Star."
Sheldon Machine Co., 4240 N. Knox Ave., Chicago 41, Ill.
South Bend Lathe Works, 342 E. Madison St., South Bend 22, Ind.



LATHES, Brake Drum

Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo.
Evans Reamer & Machine Co., 5490 Dunham Rd., Maple Heights, Ohio.
Greaves Machine Tool Co., Eastern Ave. & Hazen St., Cincinnati, Ohio.
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio.
Rush Mfg. Co., E. S., 499 San Fernando Rd., Los Angeles 3, Calif.
Shepard-Thomason Co., 2023 W. Gage Ave., Los Angeles 44, Calif. "Thomason."
Van Norman Co., 3640 Main St., Springfield 7, Mass.
VanTool, Inc., 139 N. 22nd St., Philadelphia 3, Pa.
Waddell Equipment Co., 237 South Ave., Garwood, N. J.

LATHES, COMMUTATOR, See Undercutters, Mica

LENSES, Lamp (Glass)

Dearborn Glass Co., 2414 W. 21st St., Chicago, Ill.
Do-Ray Lamp Co., 1458 S. Michigan Ave., Chicago 5, Ill.
Electric Auto-Lite Co., Mdse. Div., Toledo 1, Ohio. "Auto-Lite."
Johnson Glass Co., 5248 Elston Ave., Chicago 30, Ill. "Lynx-Eye" (Tail; "Lenex" head.)
K-D Lamp Div., Noma Electric Corp., 1910 Elm St., Cincinnati 10, Ohio.
Kopp Glass, Inc., Palmer & Carrie Sts., Swissvale, Pa. (Colored.)
Lancaster Lens Co., 220 W. Main St., Lancaster, Ohio. (Tail, stop, parking, clearance, dome, etc.)
McKee Glass Co., Bullitt Ave., Jeanette, Pa. "McKeelite," "Spreadlight," "Twolite."
United Lens Corp., 1920 Elmhurst St., Detroit 6, Mich. "Monogram," "Twin Beam," "Glolite," "Twilite," "Depress Beam," "Stabilite," "Parabeam," "Flex Beam," "Solar," "Tribeam," "Riteway," "Bi Ray," "Control Beam." (Flat.)
Yankee Metal Products Corp., 31 Grand St., Norwalk, Conn.

LENSES, Lamp (Plastic)

Bowman Automotive Plastics Co., 4316 W. 192nd St., Farview Village 16, Ohio.

Thompson Trophy Winners-1949

NATIONAL AIR RACES — CLEVELAND, SEPT. 5

Capt. Bruce Cunningham, Army Air Force flyer, won the Jet Division of the Thompson Trophy Race. In this event the planes flew 10 laps of a 15-mile circular course around 7 pylons for 150 miles. The winner set a new speed record for the race, with an elapsed time of 15:21.23 minutes, an average of 586.173 miles per hour.

Cook Cleland of Cleveland took first place in the "R" Division of the race, for piston-engine planes, around the 7-pylon course. His time for the 15 laps—225 miles—was 33:59.94 minutes. He averaged 397.071 miles per hour to beat the previous record he set in 1947.

THE JET PLANE flown by Capt. Cunningham was a North American F-86-A5 "Sabre" fighter, with an Allison-built General Electric J-47-A engine.

Trophies and Awards for the Two Events

The 1949 Thompson Trophy Race comprised two divisions—the "J" for jet planes, the "R" for piston-type engines. The winners in each division were presented with duplicate 40″ bronze Thompson Trophies, to be held for one year and then returned for competition.

A prize purse of $40,000 was divided among the first eight finishing in the "R" Division with Cleland receiving $16,000 for first place, $2,000 for beating the old record, and $1,100 in lap prizes.

CLELAND'S PLANE was a Goodyear F2G "Corsair", with a Pratt-Whitney 28-cylinder Wasp Major engine. Cleland, ex-Navy fighter pilot and now the operator of a private airport, had initiated several of his own ideas in grooming his ship for greater speeds.

The Purpose Behind the Thompson Trophy Race

The "Thompson", because it tests a plane's stamina and maneuverability at all-out, wide-open throttle speed, is one of the great proving grounds for innovations in plane and engine design. The world's best-racing pilots labor months ahead for each annual Thompson Trophy Race. This historic classic of the air provides a sporting and a monetary incentive to encourage development of higher air speeds combined with maneuverability so essential to our nation's commercial and military leadership.

Thompson Products, Inc.

CLEVELAND • DETROIT • LOS ANGELES • ST. CATHARINES, CANADA
MANUFACTURERS OF PRECISION AUTOMOTIVE AND AIRCRAFT PARTS

3820-1

LENSES, Lamp (Plastic)—cont.

Chicago Molded Products Corp., 1049 N. Kolmar Ave., Chicago 51, Ill.
Grote Mfg. Co., Lafayette & Grandview Aves., Bellevue, Ky.
Guide Lamp Div., General Motors Corp., 25th St. & Arrow Ave., Anderson, Ind.

LIFT TRUCKS, See Trucks, Lift

LIFTS, Vehicle (Electric)

Globe Hoist Co., E. Mermaid Lane & Queen St., Philadelphia 18, Pa.
Holmes Co., Ernest, 2505 E. 43rd St., Chattanooga, Tenn.
Joyce-Cridland Co., 2027 E. First St., Dayton 3, Ohio.
Rotary Lift Co., 1054 Kansas St., Memphis 2, Tenn.
United States Air Compressor Co., 5300 Harvard Ave., Cleveland 5, Ohio.
Walker Mfg. Co. of Wis., Michigan & Hamilton Sts., Racine, Wis.
Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill.

LIFTS, Vehicle (Hydraulic)

Cochin Mfg. Co., J. D., 1440 E. Grand Ave., South San Francisco, Cal. "Easy." (Also portable.)
Curtis Pneumatic Machinery Div. of Curtis Mfg. Co., 1927 Kienlen Ave., St. Louis 20, Mo.
Gilbert & Barker Mfg. Co., West Springfield, Mass. "Gilbarco."
Globe Hoist Co., E. Mermaid Lane & Queen St., Philadelphia 18, Pa. (Air and electrically operated.)
Hayward Hallett Equipment Co., Div. of Hayward Lumber & Investment Co., 410 San Fernando Rd., Los Angeles, Calif.
Joyce-Cridland Co., 2027 E. First St., Dayton 3, Ohio.
Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
Rotary Lift Co., 1054 Kansas St., Memphis 2, Tenn. (Air operated.)
United States Air Compressor Co., 3300 Harvard Ave., Cleveland 5, Ohio.
Wayne Pump Co., Tecumseh & Cochran Sts., Fort Wayne 4, Ind.
Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill. "Twin-Post." (Pneumatic-hydraulic.)
Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K.R.W." (Rotary.)

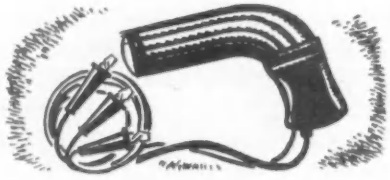
LIFTS, Vehicle (Pneumatic)

Joyce-Cridland Co., 2027 E. First St., Dayton 3, Ohio.
Robison Air Jack Co., 2345 Jerrold Ave., San Francisco 24, Cal. (Front end.)

LIGHTS, See Lamps

LIGHTS, Timing

Advertising Distributors, Inc., 5046 Shaw Ave., St. Louis 10, Mo. "A.D.I." (Neon light type.)



Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13F, Mich. (Neon light type.)
Arsco Mfg. & Sales Corp., 451 Tenth Ave., New York 18, N. Y. (Neon light type.)
Edelmann & Co., E., 2332 Logan Blvd., Chicago 47, Ill. (Neon light type.)
Electric Heat Control Co., 9115 Inman Ave., Cleveland 5, Ohio. "King."
F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill. "Filko." (Photo-flash type.)
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich. (Neon light type.)
Niehoff Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill. (Neon light type.)
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. (Neon light type.)
Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ill. (Neon light type.)
T. & H. Mfg. Co., 811 E. 31st St., Kansas City 3, Mo. (Neon light type.)
Tungsten Contact Mfg. Co., 7311 Cottage Ave., North Bergen, N. J.
Tungsten Spark Plug Mfg. Co., Tungsten Bldg., 1716 S. Michigan Ave., Chicago 16, Ill. (Neon light type.)
Weidenhoff, Inc., Joseph, 4340 W. Roosevelt Rd., Chicago 24, Ill.

LINING, Brake

American Brakeblok Div., American Brake Shoe Co., 4600 Merritt Ave., Detroit 9, Mich.
Anchor Packing Co., 401 N. Broad St., Philadelphia 8, Pa. "Ankorite."
Asbestos Mfg. Co., E. Sabine St., Huntington, Ind. "Amco."
Asbestos Textile Co., 165 W. Wacker Drive, Chicago 1, Ill.
Atlas Asbestos Co., North Wales, Pa. "Atlas," "Giant Atlas," "Old Ironsides," "Quaker," "Coastgard," "Bodygard," "Lifegard," "Autogard," "Motogard."
Bendix Products Div., Bendix Aviation Corp., 401 Bendix Drive, South Bend 20, Ind.
Burrell Belting Co., 413 S. Hermitage Ave., Chicago, Ill. "E. Z. Grip," "BB Wire Back."
Carlisle Corp., Molded Materials Div., Ridgway, Pa.
Colt's Patent Fire Arms Mfg. Co., 17 Van Dyke Ave., Hartford, Conn.
Fibre & Metals Products, Inc., 11406 S. Downey Ave. (P. O. Box 270), Downey, Calif. "F & M."
Firestone Tire & Rubber Co., S. Main St., Akron, Ohio.
Gatke Corp., 228 N. La Salle St., Chicago 1, Ill. "Asbesgraphite," "Besto," "Gatke," "Servall," "Duo-Coe," "Dura Blok," "Sixty," "Modrate," "Blue Ribbon," "Standard," "Makablok."
Grey Rock Div. of Raybestos-Manhattan, Inc., Manheim, Pa.
Grizzly Mfg. Co., 700 W. Caroline St., Paulding, Ohio. "Grizzly," "X-T."
Hope Webbing Co., Providence 1, R. I.
Inland Mfg. Div.-General Motors Corp., 2727 Inland Ave., Dayton 1, Ohio. "Inlite."
Johns-Manville Corp., 22 E. 40th St., New York 16, N. Y. "J-M."
Laher Spring & Tire Corp., 26th & Magnolia Sts., Oakland, Calif. "Lasco."
Marshall-Eclipse Div. of Bendix Aviation Corp., Box 538, Troy, N. Y. "Bendix Eclipse."
Miley Co., L. J., 18 S. Sangamon St., Chicago 7, Ill. "Champion," "Miley," "Miley Black Gold," "Carbonite," "Miley Ebonite," "Premier," "Zeebee," "Bloc-Tex," "Shoe-Stok," "Unarco," "Wovenstone."
Molded Materials Div. of Carlisle Corp., Gillis Ave., Ridgway, Pa. "Mold-Blok."
National Brake Block Corp., 79 Madison Ave., New York, N. Y.
Rawhide Products Co., Michigan Ave., Kenilworth, N. J. "Gripper."
Raybestos Div. of Raybestos-Manhattan, Inc., Stratford, Conn.
Raybestos-Manhattan, Inc., Manhattan Rubber Div., 61 Willet St., Passaic, N. J. "Manhattan."
Rex-Hide Brake Lining Co., 67 Glenwood Pl., East Orange, N. J. "Rex-Hide," "Rex-85," "Rex-Hy," "Rex-SS," "Rexstar."
Rossendale Ruboil Co., 30 Euclid Ave., Newark, N. J. "Reddaway."
Russell Mfg. Co., Middletown, Conn. "Rusco."
Scandinavia Belting Co., 248 Central Ave., Newark 1, N. J. "Scandinavia," "Halo."
Southern Friction Materials Co., Box 1475, Charlotte, N. C.
Thermoid Co., Whitehead Rd., Trenton 6, N. J.
Triplewear, Inc., 340 Thomas St., Newark 5, N. J.
Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo. "Wagner CoMaX."
World Bestos Corp., S. 25th St., New Castle, Ind.

LINING, Brake (Bimetallic)

Grey-Rock Div. of Raybestos-Manhattan, Inc., Manheim, Pa.
Raybestos Div. of Raybestos-Manhattan, Inc., Stratford, Conn.
Wellman Co., S. K., 1374 E. 51st St., Cleveland 3, Ohio. "Velvetouch."

LINKS, Shock Absorber

Automotive Mfg. Co., 570 W. Fulton St., Chicago 22, Ill. "Amko."
Badger Tool & Mfg. Co., 1501 W. Polk St., Chicago, Ill.
Champ-Items, Inc., 6191 Maple Ave., St. Louis, Mo. (For Ford cars.)
Elgin Machine Works, 412 N. State St., Elgin, Ill.
Freedco Products, Inc., 154 Nassau St., New York, N. Y.
Kreger Mfg. Co., L. F., 540 W. 35th St., Chicago 16, Ill. (For Ford cars.)
O & S Bearing Co., 303 S. Livernois Ave., Detroit 17, Mich.
Van Bergen & Greener Inc., 1619 N. Hayne Ave., Chicago 47, Ill. "Van."
Wohlert Corp., 700 E. Grand River Ave., Lansing 6, Mich.

LINKS, Tire Chain Repair

Bridgeport Chain & Mfg. Co., 1201 Crescent Ave., Bridgeport, Conn.
Campbell Chain Co., York, Pa.
Cleveland Chain & Mfg. Co., Penn. R. R. & Henry St., Cleveland 5, Ohio. "Wearwell."
Flower City Specialty Co., 158 Hollenbeck St., Rochester, N. Y. "Monkey Links," "Pretzel Links."
Loock & Co., R. J., 343 N. Gay St., Baltimore, Md. "Lightnin."
McKay Co., 1005 Liberty Ave., Pittsburgh 22, Pa.
Nixdorff-Krein Mfg. Co., 916 Howard St., St. Louis 6, Mo. "Elephant Brand."
Peerless Chain Co., Front & Walnut Sts., Winona, Minn. "Wing-Loc."
Rawhide Products Co., Michigan Ave., Kenilworth, N. J. "Gripper."
Raymond Mfg. Co., Div. of Associated Spring Corp., 226 S. Center St., Corry, Pa.
St. Pierre Chain Corp., Frank St., Worcester, Mass.
Taylor Chain Co., S. G., P. O. Box 509-C, Hammond, Ind. "Taylor-Made."
Western Chain Co., 1807 Belmont Ave., Chicago 13, Ill. "Wesco."
Wickwire Spencer Steel, Div. of Colorado Fuel & Iron Corp., 500 Fifth Ave., New York 18, N. Y.

LIST, Parts

M & H Parts Inc., 14066 Euclid Ave., East Cleveland, 12, Ohio. (For Eaton 2-speed axles.)

LOAD HOLDERS (For Holding Cargo in Vehicle Body)

Jordan Equipment Co., 2526 Wood St., Oakland 7, Calif. "Lode-Lok."

LOADERS, Truck (Elevating Tailgate)

Anthony Co., Streator, Ill.
Cemco Industries, Inc., First National Bank Bldg., Galion, Ohio.
Daybrook Hydraulic Corp., Bowling Green, Ohio.
Fruehauf Trailer Co., 10940 Harper Ave., Detroit 32, Mich. "Modern."
Heil Co., 3000 W. Montana St., Milwaukee 1, Wis.
Hercules Steel Products Corp., Box 477, Galion, Ohio.

LOCKS, Brake (Hill Holding)

Automatic Brake Control Co., 1 Flax St., Delaware, Ohio. "ABC." (Automatic hydraulic.)
Auto-Quip, 220 N. Front St., Burbank, Calif. "Brake-Lox."
Electrol Incorporated, 85 Grand St., Kingston, N. Y. "RolControl."
Minnesota Automotive, Inc., 1328 Hennepin Ave., Minneapolis 3, Minn. "Mico."
Monroe Standard, Inc., Wyandot Bldg., Galion, Ohio. "Hydraulocks."
Sharp Mfg. Co., 109 W. Columbus St., Nelsonville, Ohio. "Double Check."
Sure-Rite Products Corp., 2731 N. Sixth St., Philadelphia 33, Pa. "Sure-Rite Hill Holder."
Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo. "NoRol."
Wico Electric Co., 42 Phelon Ave., West Springfield, Mass.

LOCKS, Ignition

Briggs & Stratton Corp., 2711 N. 13th St., Milwaukee 1, Wis.
Chicago Lock Co., 2024 N. Racine Ave., Chicago 14, Ill.
Clum Mfg. Co., 601 W. National Ave., Milwaukee, Wis.
Eagle Lock Co., S. Main St., Terryville, Conn.
Freedco Products, Inc., 154 Nassau St., New York, N. Y.
General Automotive Specialty Co., 599 11th Ave., New York 19, N. Y. "Gasco."
Houdaille-Hershey Corp., Decatur Div., 800 E. Garfield St., Decatur, Ill.
Hurd Lock & Mfg. Co., Almont, Mich.
United Specialties Co., Mitchell Div., Shelmire & Edmund Sts. (Holmesburg), Philadelphia, Pa. "Mitchellock."

CoMaX IS BEST for all your FLEET NEEDS!

Big or small, Wagner CoMaX meets *all* your fleet requirements with a longer wearing, more economical brake lining. CoMaX is made of a superior, even-wearing friction material that assures you of more safe, smooth stops between every relining.

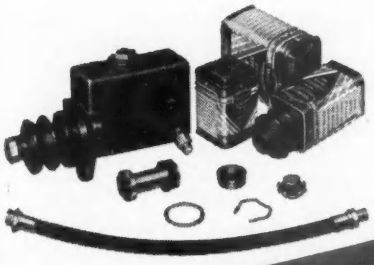
Available in rolls, blocks, slabs and cut segments to provide *complete coverage* for all your fleet needs. Standardize on Wagner CoMaX and get all your lining from a single, dependable source. Order from your Wagner wholesaler today.

* * *

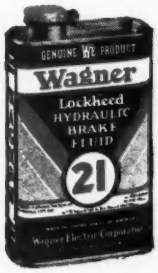
For added safety...get Wagner Air Brakes—the *only* air brake with the Rotary Compressor.

Wagner Electric Corporation

6470 PLYMOUTH AVE., ST. LOUIS 14, MO., U. S. A.



REPAIR with WAGNER LOCKHEED HYDRAULIC BRAKE PARTS



REFILL with WAGNER LOCKHEED BRAKE FLUID

You can depend on Wagner Quality because: **WAGNER PRODUCTS ARE USED AS ORIGINAL EQUIPMENT BY AUTOMOBILE MANUFACTURERS**

Wagner Electric Corporation EST. WE 1891

LOCKHEED HYDRAULIC BRAKE PARTS and FLUID · NoRol CoMaX BRAKE LINING · AIR BRAKES · TACHOGRAPHS ELECTRIC MOTORS · TRANSFORMERS · INDUSTRIAL BRAKES

B49-3

Ask for Bulletins HU-17G and HU-197...Tips for Better Brake Service...free on request.

1945-1

LUBRICANTS, Engine & Chassis, See Oils and Lubricants

LUBRICANTS, Gear, See Oils and Lubricants

LUBRICATORS, Hand

Adams Grease Gun Corp., 54 W. 21st St., New York 10, N. Y.
Agner Simplex Co., 106 Pine St., Burlington, Wis. "Simplex."
Balcrank, Inc., Disney St. nr. Marburg, Cincinnati, Ohio.
Bishman Mfg. Co., Osseo, Minn.
Bowen Products Corp., Ecorse 25, Mich.; Auburn, N. Y. "Empress."
Coil Mfg. Co., 1001 N. Fares Ave., Evansville 11, Ind. (Universal joint, clutch and shock absorber.)
De Vilbiss Co., 300 Phillips Ave., Toledo 1, Ohio.
Dixon Crucible Co., Joseph, Monmouth & Wayne Sts., Jersey City 3, N. J. "Graph-Air." (Graphited.)
Dutton-Lainson Co., Mfg. Div., Hastings, Neb. "Golden Rod."
G. M. Co Mfg. Co., 43-10 21st St., Long Island City, L. I., New York.
Gilbert & Barker Mfg. Co., West Springfield, Mass. "Gilbarco."
Gray Co., 60 11th Ave., N. E., Minneapolis 13, Minn. "Graco."
Hansen Mfg. Co., 4031 W. 150th St., Cleveland 11, Ohio.
Inter-Continent Mfg. Co., 1411 S. Michigan Drive, Chicago 5, Ill. "Imco-Lube."
Lincoln Engineering Co., 5701 Natural Bridge Ave., St. Louis 20, Mo. "Handi-Lubers," "Kleenseal."
Monarch Tool & Machinery Co., 3435 S. Racine Ave., Chicago 8, Ill.
Nauman, R. F., State Tower Bldg., Syracuse 2, N. Y. "Naco."
Noera Mfg. Co., Div. of Chase Brass & Copper Co., 236 Grand St., Waterbury 91, Conn.
Smith Equipment Corp., Herb., 414 Taylor Bldg., Rochester, N. Y.
Smith Mfg. Co., Grover C., 850 E. Valley Blvd., San Gabriel, Calif. "Grover."
Stewart-Warner Corp., Alemite Div., 1826 Diversey Parkway, Chicago 14, Ill. "Alemite."
United States Air Compressor Co., 5300 Harvard Ave., Cleveland 5, Ohio.
Wood Mfg. Co., John, Muskegon, Mich. "Bennett." (Selling company, Service Station Equipment Co., Muskegon, Mich.)

LUBRICATORS, Portable High Pressure (Compressed Air)

Adams Grease Gun Corp., 54 W. 21st St., New York 10, N. Y.
Aro Equipment Corp., Bryan, Ohio.
Balcrank, Inc., Disney St. nr. Marburg, Cincinnati, Ohio.
Electric Sprayit Co., 14th & Illinois Sts., Sheboygan, Wis. "Sprayit."
Gilbert & Barker Mfg. Co., West Springfield, Mass. "Gilbarco."
Gray Co., 60 11th Ave., N. E., Minneapolis 13, Minn. "Graco."
Lincoln Engineering Co., 5701 Natural Bridge Ave., St. Louis 20, Mo. "Lubriguns," "Powerlubers."
Paasche Airbrush Co., 1909 Diversey Parkway, Chicago 14, Ill.
Scharoun Co., R. J., Pulaski, N. Y.
Smith Mfg. Co., Grover C., 850 E. Valley Blvd., San Gabriel, Calif. "Grover."
Stewart-Warner Corp., Alemite Div., 1826 Diversey Parkway, Chicago 14, Ill. "Alemite."
United States Air Compressor Co., 5300 Harvard Ave., Cleveland 5, Ohio.

LUBRICATORS, Portable High Pressure (Electric)

Adams Grease Gun Corp., 54 W. 21st St., New York 10, N. Y.
Aro Equipment Corp., Bryan, Ohio.
Balcrank, Inc., Disney St. nr. Marburg, Cincinnati, Ohio.
Hobbs Corp., John W., Yale Blvd. & Ash St., Springfield, Ill. "Electro-Draulic."
Lincoln Engineering Co., 5701 Natural Bridge Ave., St. Louis 20, Mo. "Lubriguns."
Stewart-Warner Corp., Alemite Div., 1826 Diversey Parkway, Chicago 14, Ill. "Alemite."
Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K. R. W."

LUBRICATORS, Portable High Pressure (Hand Operated)

Adams Grease Gun Corp., 54 W. 21st St., New York 10, N. Y.
Aro Equipment Corp., Bryan, Ohio.
Balcrank, Inc., Disney St. nr. Marburg, Cincinnati, Ohio.
Gilbert & Barker Mfg. Co., West Springfield, Mass. "Gilbarco."
Jiffy Lubricator Co., 304 Second Ave., Fargo, N. D.
Lincoln Engineering Co., 5701 Natural Bridge Ave., St. Louis 20, Mo. "Lincoln Porto-Pak."
National Store Specialty Co., Bareville, Pa.
Nauman, R. T., State Tower Bldg., Syracuse 2, N. Y. "Naco."
Phillips Pump & Tank Div., Steel Materials Corp., 5000 Brotherton Rd., Cincinnati 9, Ohio.
Stewart-Warner Corp., Alemite Div., 1826 Diversey Parkway, Chicago 14, Ill. "Alemite."
United States Air Compressor Co., 5300 Harvard Ave., Cleveland 5, Ohio.
Universal Lubricating Systems, Inc., 747 Allegheny Ave., Oakmont, Pa.

LUBRICATORS, Stationary, High Pressure (Compressed Air)

Aro Equipment Corp., Bryan, Ohio.
Balcrank, Inc., Disney St. nr. Marburg, Cincinnati, Ohio.
Gilbert & Barker Mfg. Co., West Springfield, Mass. "Gilbarco."
Gray Co., 60 11th Ave., N. E., Minneapolis 13, Minn. "Graco."
Lincoln Engineering Co., 5701 Natural Bridge Ave., St. Louis 20, Mo. "Lubriguns," "Masterlubes," "Lubreel."
Smith Mfg. Co., Grover C., 850 E. Valley Blvd., San Gabriel, Calif. "Grover."
Stewart-Warner Corp., Alemite Div., 1826 Diversey Parkway, Chicago 14, Ill. "Alemite."

LUBRICATORS, Upper Cylinder

Automotive & Marine Products Corp., 87 Harvard Ave., Boston 34, Mass. "Ampco."
Emerol Mfg. Co., 242 W. 69th St., New York 23, N. Y. "Marvel Inverse Oiler."
Universal Lubricating Systems, Inc., 747 Allegheny Ave., Oakmont, Pa.

MACHINES, Babbitting (Main Bearing and Connecting Rod)

Freeport Machine Works, 120 E. Main St., Freeport, Ill.
Waterbury Tool, Div. of Vickers, Inc., 188 E. Aurora St., Waterbury 91, Conn. "Waterbury-Simplicity." (Connecting rod.)

MACHINES, Bonding (For Cracked Cylinders)

Mercury Battery Charger Co., 719 Wyandotte St., Kansas City 6, Mo. (Also combination bonder and arc welder.)
Moguloid Co. of America, 3520 W. Carroll Ave., Chicago, Ill.

MACHINES, Boring (Main Bearing and Connecting Rod)

(See also Reamers, Main Bearing and Connecting Rod)

Ammco Tools, Inc., 2100 Commonwealth Ave., North Chicago, Ill.
Cedar Rapids Engineering Co., 902 N. 17th St., Cedar Rapids, Iowa. "Kwik-Way." (Main bearing.)
Evans Reamer & Machine Co., 526 S. Main St., New Lexington, Ohio.
Ekstrom, Carlson & Co., 1439 Railroad Ave., Rockford, Ill.
Freeport Machine Works, 120 E. Main St., Freeport, Ill.
Fulmer Co., C. Allen, 1211 First National Bank Bldg., Cincinnati, Ohio.
Hub City Iron Co., 219 First Ave., S. W., Aberdeen, S. D.
Hydro-Borer Co., Div. of Southwest Development Co., 1511 W. Florence Ave., Inglewood, Calif.
Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio. (Main and camshaft bearing.)
McDonough Mfg. Co. (Machine Tool Dept.), Eau Claire, Wis. "Sterling." (Main bearing.)
Snyder Tool & Engrg. Co., 3400 E. Lafayette Ave., Detroit 7, Mich.
Storm-Vulcan, Inc., 2504 Commerce St., Dallas 1, Tex. (Connecting rod bearing.)
Sunnen Products Co., 7910 Manchester Ave., St. Louis 17, Mo.
Tobin-Arp Mfg. Co., 2845 Harriet Ave., S., Minneapolis 8, Minn.
Van Norman Co., 3640 Main St., Springfield 7, Mass. (Connecting rod.)
Waterbury Tool, Div. of Vickers, Inc., 188 E. Aurora St., Waterbury 91, Conn. "Waterbury-Simplicity." (Connecting rod.)
Winona Tool Mfg. Co., 1430 W. Broadway, Winona, Minn. "Wi-To-Co."

MACHINES, Boring (Piston Pin Bushing)

Hydro-Borer Co., Div. of Southwest Development Co., 1511 W. Florence Ave., Inglewood, Calif.
Tobin-Arp Mfg. Co., 2845 Harriet Ave., S., Minneapolis 8, Minn.

MACHINES, Brake Relining

Barrett Equipment Co., 2101 Cass Ave., St. Louis, Mo.
Chicago Rivet & Machine Co., 9603 W. Jackson Blvd., Bellwood, Ill. (Chicago Suburb.) "Chicago," "Buffalo," "Niagara." (Reliners, rivet setters, "Reliance," combination deliner, reliner and grinder, etc.)
Davis Brake Co., 2219 N. Second St., Philadelphia 33, Pa.
Evans Reamer & Machine Co., 526 S. Main St., New Lexington, Ohio.
Grey-Rock Div. of Raybestos-Manhattan, Inc., Manheim, Pa.
Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio.
Miley Co., L. J., 18 S. Sangamon St., Chicago 7, Ill.
Milford Rivet & Machine Co., Post Rd., Milford, Conn. (Rivet setting.)
National Rivet & Mfg. Co., Waupun, Wis.
Rawhide Products Co., Michigan Ave., Kenilworth, N. J. "Gripper."
Raybestos Div. of Raybestos-Manhattan Inc., Stratford, Conn.
Rex-Hide Brake Lining Co., 67 Glenwood Pl., East Orange, N. J.
Shepard-Thomason Co., 2320 W. Gage Ave., Los Angeles 44, Calif. "Thomason." (Combination brake lining and brake shoe grinding.)
Star Machine & Tool Co., 201 Sixth St., S. E., Minneapolis 14, Minn.
Wadell Equipment Co., 237 South Ave., Garwood, N. J. (Also combination riveter and brake shoe grinder.)
Wilder Co., M. B., 2024 St. Mary's Ave., Omaha 2, Neb. "Morris."
Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K. R. W." (For Ford cars.)

MACHINES, Clutch Rebuilding

(See also Tools, Clutch Rebuilding)

Accurate Parts Mfg. Co., 12435 Euclid Ave., Cleveland 6, Ohio.
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio.
Miller Tool & Mfg. Co., 1725 16th St., Detroit, Mich.
Monmouth Products Co., 6545 Carnegie Ave., Cleveland 3, Ohio.
Perfection Gear Co., 152nd St. & Vincennes Ave., Harvey, Ill.

MACHINES, Piston Turning and Grinding

Besly & Co., Chas. H., 118 N. Clinton St., Chicago 6, Ill. (Grinding.)
Cedar Rapids Engineering Co., 902 N. 17th St., Cedar Rapids, Iowa. "Kwik-Way."
Landis Tool Co., Sixth & Ringold Sts., Waynesboro, Pa. (Hydraulic grinding.)
Lempco Products, Inc., Dunham Rd., Bedford, Ohio.
Storm-Vulcan, Inc., 2504 Commerce St., Dallas 1, Tex.

One metal offers you the premium of one third greater lightness . . . Dow

MAGNESIUM

the world's lightest structural metal!

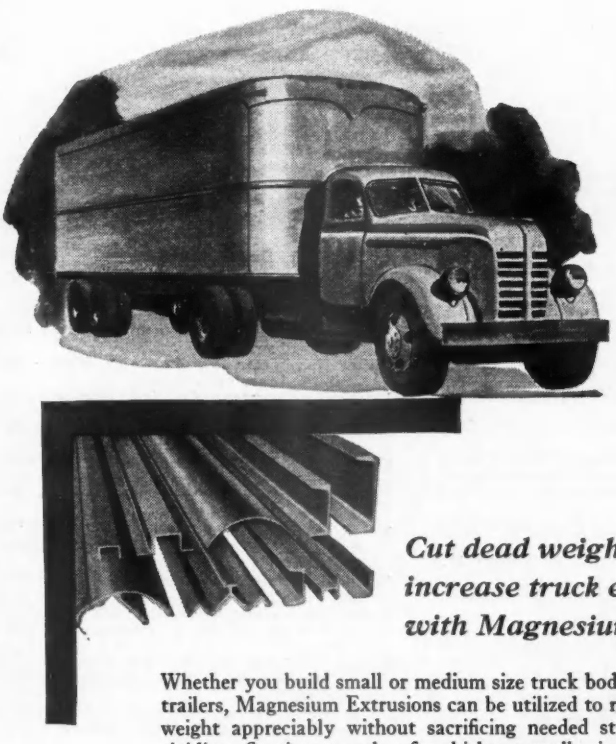
There's a real premium, an extra, that comes with every single pound of magnesium you use. Magnesium and only magnesium combines strength and durability, yet is a *full one third lighter than any other practical metal!*

And in the truck body business, as you well know, that bonus—that significant margin of lightness—pays for itself in more ways than one. First, of course, it converts worthless dead weight into precious payload. Equally important, it reduces truck operating and maintenance costs. And in many cases, it makes possible additional savings through the use of lighter, less costly chassis!

If you are trying to get rid of excess pounds and increase hauling capacity in your truck bodies, try magnesium. You'll find, as have many others, that magnesium is the one and only metal for the job. For more complete information and technical assistance, write to Dow. Ask for your free copy of "Hauling Costs Down", a book filled with facts on magnesium truck bodies.

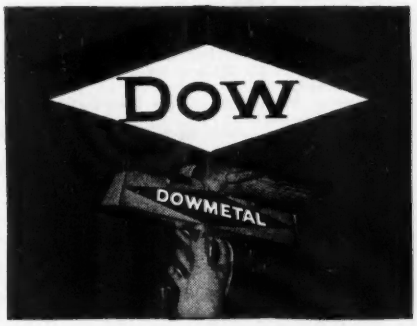
THE DOW CHEMICAL COMPANY • MIDLAND • MICHIGAN

New York • Boston • Philadelphia • Washington • Cleveland • Detroit • Chicago
St. Louis • Houston • San Francisco • Los Angeles • Seattle
Dow Chemical of Canada, Limited, Toronto, Canada



Cut dead weight economically—
increase truck efficiency—
with Magnesium Extrusions

Whether you build small or medium size truck bodies or giant trailers, Magnesium Extrusions can be utilized to reduce body weight appreciably without sacrificing needed strength and rigidity. Service records of vehicles actually in use prove that magnesium bodies are just as durable—just as dependable—as those made from other materials. Using magnesium extrusions is the economical way to save weight, because they are available in shapes and sizes best suited to your needs.



Lighter Products Sell—make your product Magnesium Light!

805-1

MACHINES, Piston Turning and Grinding—cont.

Van Norman Co., 3640 Main St., Springfield 7, Mass.
Waterbury Tool, Div. of Vickers, Inc., 188 E. Aurora St., Waterbury 91, Conn. "Waterbury-Simplicity."

MAGNESIUM

The Dow Chemical Co., Midland, Mich.

MAGNETOS

American Bosch Corp., 3664 Main St., Springfield 7, Mass.
Fairbanks Morse & Co., Magneto Div., Beloit, Wis.
Jack & Heintz Precision Industries, Inc., 17600 Broadway, Cleveland 1, Ohio. "Eiseman."
P & D Mfg. Co., 1902 Steinway St., Long Island City, L. I., N. Y. "Super Chief."
Scintilla Magneto Div., Bendix Aviation Corp., Sherman Ave., Sidney, N. Y. "Bendix-Scintilla."
Watts Electric & Mfg. Co., 2222 E. Maple Rd., Birmingham, Mich.
Wico Electric Co., 42 Phelon Ave., West Springfield, Mass.

MANIFOLDS, Intake and Exhaust

Continental Motors Corp., Muskegon 82, Mich.
Detroit Gasket & Mfg. Co., 12640 Burt Rd., Detroit, Mich. "Steelbestos."
Electric & Carburetor Engrg. Co., 231 E. Eighth St., Los Angeles 21, Calif. "Tattersfield."
International Parts Corp., 11th & State Sts., Chicago 5, Ill.
Marathon Foundry & Machine Co., 1212 West St., Wausau, Wis.
Tube Manifold Corp., 1100 Military Rd., Buffalo 17, N. Y.
Wohlert Corp., 700 E. Grand River Ave., Lansing 6, Mich. (For Ford and Chevrolet.)

MASKING, Liquid

Adhere Inc., 1220 Maple Ave., Los Angeles 15, Calif. "Spraymask."
Briggs Mfg. Co., Refinishing Materials Div., 3001 Miller St., Detroit 11, Mich.
Continental Corp., 1800 Winnemac Ave., Chicago, Ill. "Protect-O-Lac."
Dennis Chemical Co., 2701 Papin St., St. Louis 3, Mo. "Red-Skin."
Detrex Corp., Box 501, Detroit 32, Mich. "LPM."
De Vilbiss Co., 300 Phillips Ave., Toledo 1, Ohio.
Ditzler Color Div., Pittsburgh Plate Glass Co., 8000 W. Chicago Ave., Detroit 4, Mich.
du Pont de Nemours & Co., E. I., Refinish Sales Dept., Wilmington, Del.
Finch, Ltd., Leon, 728 E. 59th St., Los Angeles 1, Calif. "Leo-Mask."
Hanson-Van Winkle-Munning Co., Matawan, N. J. "Kote-Masq," "Kote-Rax."
Ken-nite Co., 2936 Hancock Ave., W., Detroit 8, Mich.
Lucas & Co., John, 1617 Pennsylvania Blvd., Philadelphia 3, Pa. "Lucote."
Martin-Senour Co., 2520 Quarry St., Chicago 8, Ill.
Park Chemical Co., Military & Vancouver Aves., Detroit 4, Mich. "Protexit."
Servwell Products Co., 6519 Euclid Ave., Cleveland 3, Ohio. "Plask."
Sherwin-Williams Co., 101 Prospect Ave., N. W., Cleveland 1, Ohio.
Steelcote Mfg. Co., 3418 Gratiot Ave., St. Louis 3, Mo.
Swavely Chemical & Varnish Works, 831 Page St., Flint 5, Mich. "Smooth Glaze."
Turco Products, Inc., 6135 S. Central Ave., Los Angeles 1, Calif. "Turco Duramask."

MASKING, Tape

Bauer & Black, Div. of Kendall Co., 2500 S. Dearborn St., Chicago, Ill.
Chicago Show Printing Co., Mystik Adhesive Div., 2635 N. Kildare Ave., Chicago 39, Ill. "Mystik."
Industrial Tape Corp., New Brunswick, N. J. "Permacel."
Servwell Products Co., 6519 Euclid Ave., Cleveland 3, Ohio. "Plask."
Van Cleef Bros., Inc., Woodlawn Ave., 77th to 78th St., Chicago, Ill. "Dutch Brand Mask-O," "Dutch Brand Techni."

MATS or MATTING (Rubber)

Ace Rubber Products, Inc., 100 Beech St., Akron, Ohio.
Anchor Rubber Products, Inc., 1725 London Rd., Cleveland 12, Ohio. "Tuftex." (Mats.)

If you cannot find the product classification you seek, see "Specialized Products," on Page 254.

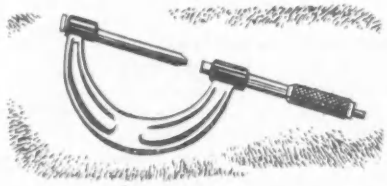
Asbestos Mfg. Co., E. Sabine St., Huntington, Ind. "Amco."
Baldwin Rubber Co., 366 S. Boulevard, E., Pontiac, Mich. (Mats.)
Better Monkey Grip Co., 5320 Harry Hines Blvd., Dallas, Tex. "Feather Flex." (Mats.)
Boston Woven Hose & Rubber Co., P. O. Box 1071, Boston 3, Mass.
Buckeye Reliner Producing Co., 637 N. Jackson St., Lima, Ohio.
Continental Rubber Works, 1902 Liberty St., Erie, Pa. (Matting.)
Dayton Rubber Mfg. Co., 2342 W. Riverside Ave., Dayton 1, Ohio.
Doan Mfg. Corp., 1644 Doan Ave., East Cleveland 12, Ohio. "Armor-Flex."
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo. "Gates Vulco."
Goodrich Co., B. F., 500 S. Main St., Akron 18, Ohio.
Goodyear Tire & Rubber Co., E. Market St., Akron 16, Ohio.
Gordon Co., J. P., 232 Neilson St., Columbus 16, Ohio.
Gross Rubber Co., Carver Bldg., Sharon, Pa.
Mercer Rubber Co., Hamilton Square, N. J.
Miller Rubber Co., Div. of B. F. Goodrich Co., 500 S. Main St., Akron, Ohio. (Mats.)
Mitchell Rubber Co., R. L., 2130 San Fernando Rd., Los Angeles 41, Calif. "Stand Easy."
Moore and Co., Samuel, Mantua, Ohio. "Rub-Rub."
Niagara Fabric Mfg. Co., 26 Waverly Pl., New York 3, N. Y.
Ohio Rubber Co., 300 Ben Hur Ave., Willoughby, Ohio. "Orco."
Paine & Williams Co., 4614 Prospect Ave., Cleveland 3, Ohio. "PW." (Mats.)
Quaker Rubber Corp., Tacony & Comly Sts., Philadelphia 24, Pa.
Raybestos Div. of Raybestos-Manhattan, Inc., Stratford, Conn. (Mats.)
Richardson Co., Lockland, Ohio.
Rubbercraft Corp. of Cal., Ltd., 110 E. 17th St., Los Angeles, Calif.
Schwartz Rubber Corp., R. H., 3708 Payne Ave., Cleveland 14, Ohio. "Fits-All." (Mats.)
Seiberling Rubber Co., Akron 9, Ohio. (Mats.)
Stello Products Co., 704 S. Main St., Hutchinson, Kans. "Car-Mat." (Mats.)
Thermoid Co., Whitehead Rd., Trenton 6, N. J.
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.
Wooster Rubber Co., E. Bowman St., Wooster, Ohio. "Rubbermaid Kar-Rugs." (Mats.)
Zink Corp., Howard, Fremont, Ohio. "Sure-Fit."

METERS, Air Tower (Automatic)

Air-Scale Div., Wayne Pump Co., Van Buren & Palmwood Aves., Delta, Ohio.
Erie Meter Systems, Inc., Pearl St. & Wagner Ave., Erie, Pa.
Gilbert & Barker Mfg. Co., West Springfield, Mass. "Gilbarco." (Automatic.)
Romort Mfg. Co., Oakfield, Wis. "Romort," "Arno."
Wayne Pump Co., Tecumseh & Cochran Sts., Fort Wayne 4, Ind.
Wood Mfg. Co., John, Muskegon, Mich. "Eco." (Selling company, Service Station Equipment Co., Muskegon, Mich.)

MICROMETERS

Ames Co., B. C., 12 Ames St., Waltham 54, Mass.
Bath & Co., John, 18 Grafton St., Worcester 8, Mass. (Internal.)



Brownie Tool Co., Waukesha St., Minooka, Ill.
Brown & Sharpe Mfg. Co., 235 Promenade St., Providence, R. I.
Central Tool Co., 467 Wellington Ave., Cranston 10, R. I.
Federal-Mogul Service, Detroit 13, Mich. (Crankshaft gage.)
Federal Products Corp., 1144 Eddy St., Providence 1, R. I.
Keystone Reamer & Tool Co., Millersburg, Pa.
Lufkin Rule Co., Hess Ave., Saginaw, Mich.
Millers Falls Co., Greenfield, Mass.
Pratt & Whitney, Div. Niles-Bement-Pond Co., Charter Oak Blvd., West Hartford 1, Conn. "P & W Supermicrometer."
Rimat Machine Tool Co., 1117 Air Way, Glendale 1, Calif.
Scherr Co., George, 200 Lafayette St., New York 12, N. Y.
Starrett Co., L. S., 1 Crescent St., Athol, Mass.
Ten Eyck Industries, Fred F., 758 S. Irolo St., Los Angeles 5, Calif.
Van Keuren Co., 176 Waltham St., Watertown, Mass. (Light wave.)

MIRRORS, Panel (For Buses)

Acme Specialty Mfg. Co., 2298 Smead Ave., Toledo 6, Ohio.
Standard Mirror Co., 141 Milton St., Buffalo 10, N. Y.

MIRRORS, Rear View

American Automatic Devices Co., Throop, Harrison & Congress Sts., Chicago 7, Ill. "King Bee."
Anthes Force Oiler Co., Fort Madison, Iowa. "Anthes Mirror Head."
Arrow Safety Devices Co., Mt. Holly, N. J.
Bolser Corp., S. Main St., Cedar Falls, Iowa. "Ful-Vue."
Dietz Co., R. E., 60 Laight St., New York 13, N. Y.
Doray Lamp Co., 1458 S. Michigan Ave., Chicago, Ill.
Electric Service Mfg. Co., 17th & Cambria Sts., Philadelphia 32, Pa.
Griffin Lamp Co., 401 S. Third St., Hamilton, Ohio.
Grote Mfg. Co., Lafayette & Grandview Ave., Bellevue, Ky.
Guide Lamp Div., General Motors Corp., 25th St. & Arrow Ave., Anderson, Ind.
K-D Lamp Div., Noma Electric Corp., 1910 Elm St., Cincinnati 10, Ohio.
Mirror Products Co., 13700 Lyndon St., Detroit 27, Mich.
Noblitt-Sparks Industries, Inc., Columbus, Ind.
Norlipp Co., 568 W. Congress St., Chicago, Ill.
Peters & Russell, Inc., Shuey Bldg., Center & Jefferson Sts., Springfield, Ohio.
See-Mor Lamp Co., 123 W. Pearl St., Cincinnati 2, Ohio. (Steel and aluminum.)
Sparton Automotive Div., Sparks-Withington Co., Jackson, Mich.
Whitehead Stamping Co., 1685 W. Lafayette Blvd., Detroit 16, Mich. "Hindview."
Yankee Metal Products Corp., 25 Grand St., Norwalk, Conn.

MOLDING, Drip (Metal)

Aluminum Co. of America, Gulf Bldg., Pittsburgh 19, Pa. "Alcoa." (Aluminum.)
American Brass Co., 414 Meadow St., Waterbury, Conn. "Anaconda." (Brass and nickel-silver.)
Bailey Co., Water St., Amesbury, Mass. (Aluminum, brass and stainless steel.)
Douglas & Lomason Co., 5836 Lincoln Ave., Detroit 8, Mich.
Herron-Zimmers Moulding Co., 3900 E. Outer Drive, Detroit, Mich. "HerZim."
Kawneer Co., 1105 N. Front St., Niles, Mich. (Aluminum, brass, rustless steel and steel.)
Lees Div. of Serrick Corp., John, Batavia St., Muncie, Ind. (Stainless steel.)
Motor Products Corp., 11801 Mack Ave., Detroit, Mich. "Detroit Diamond." (Brass and steel.)
Peninsular Metal Products Corp., 1365 Jarvis St., Detroit 20, Mich.
Revere Copper and Brass, Inc., 230 Park Ave., New York 17, N. Y. (Brass and aluminum.)
United Specialties Co., Mitchell Div., Sholmire & Edmund Sts. (Holmesburg), Philadelphia 36, Pa.
Zenite Metal Corp., 201 N. West St., Indianapolis, Ind. "Alite." (Aluminum and steel.)

MOLDING, Finish (Metal)

Ainsworth Mfg. Corp., 2200 Franklin St., Detroit 7, Mich.
Aluminum Co. of America, Gulf Bldg., Pittsburgh 19, Pa. "Alcoa." (Aluminum.)
Aluminum Goods Mfg. Co., Manitowoc, Wis. (Aluminum and stainless steel.)
American Brass Co., 414 Meadow St., Waterbury, Conn. "Anaconda." (Brass.)

"Why Wait?... Ship Motor Freight"...

NOW BROWN LIGHTWEIGHT — MORE PAY FREIGHT — ALUMINUM TRAILERS BACK UP THE SLOGAN OF MASON AND DIXON LINES

MASON and Dixon Lines, Inc., Kingsport, Tenn., has built a business around the slogan — "Why Wait — Ship Motor Freight." This successful, experienced operator knows what the motor freight line has to sell in competition with other type carriers — dependability, time-saving, convenience, regular schedules.

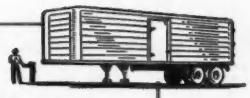
Brown Lightweight Aluminum Trailers enable Mason and Dixon to serve their customers better. More freight can be carried per trip. That improves service and increases profits. Both customer and operator benefit. Brown's exclusive "strength where it counts" construction — product of 25 years' engineering of light weight metals, pays off in dependable performance.

Brown's simple sectional construction and simplicity of repair save "down" time in case of trailer damage.

If dead weight in the trailer is robbing you of your rightful profits, it will pay you to figure out what lightweight Browns can do on your operation.

A nationwide network of Brown distributors and dealers is ready to serve you. See your nearest independent Brown distributor.

The Scale Tells the Tale



A parrot can scream — "My trailer weighs less." Brown stands on its slogan — "The Scale Tells the Tale." Yes — put a Brown on the scale — compare its light weight with any other trailer. Let the Scale Tell the Tale. You be the judge and jury, too. We'll stand on what the scale reads — compare that with mere claims.

Brown ALUMINUM TRAILERS

BROWN TRAILERS, INC. Spokane, Washington • Toledo, Ohio
Sales and Service in Principal Cities

3814-1

MOLDING, Finish (Metal)—cont.

Bailey Co., Water St., Amesbury, Mass. (Aluminum, brass and stainless steel.)
Bath Co., Cyril, Metal Form Div., E. 70th St. & Machinery Ave., Cleveland 3, Ohio.
Brasco Mfg. Co., Harvey, Ill. (Steel.)
Dahlstrom Metallic Door Co., Special Products Div., 429 Buffalo St., Jamestown, N. Y.
Detroit Moulding Div. of L. A. Young Spring & Wire Corp., 1601 Clay Ave., Detroit, Mich. (Steel.)
Douglas & Lomason Co., 5836 Lincoln Ave., Detroit 8, Mich.
Electric Auto Lite Co., Bay Mfg. Div., Bay City, Mich.
Greene Mfg. Co., 1028 Douglas Ave., Racine, Wis.
Hayes Industries, Inc., Wildwood & Fern Aves., Jackson, Mich.
Herron-Zimmers Moulding Co., 3900 E. Outer Drive, Detroit, Mich. "HerZim."
Hurd Lock & Mfg. Co., Almand, Mich.
Jacobs Co., F. L., 1043 Spruce St., Detroit 1, Mich.
Kawneer Co., 1105 N. Front St., Niles, Mich. (Aluminum, brass, rustless steel and steel.)
Lees Div. of Serrick Corp., John, Batavia St., Muncie, Ind. (Stainless steel.)
Metal Forming Corp., Sterling Ave., Elkhart, Ind. "Mefco." (Aluminum, brass, steel, stainless steel and nickel alloy.)
Motor Products Corp., 11801 Mack Ave., Detroit, Mich. "Detroit Diamond." (Steel.)
Peninsular Metal Products Corp., 1365 Jarvis St., Detroit 20, Mich.
Randall Co., 5000 Spring Grove Ave., Cincinnati, Ohio. (Steel.)
Revere Copper and Brass, Inc., 230 Park Ave., New York 17, N. Y. (Brass and aluminum.)
Ternstedt Div., General Motors Corp., 6307 W. Fort St., Detroit 9, Mich. (Brass and steel.)
United Specialties Co., Mitchell Div., Shelmire & Edmund Sts. (Holmesburg), Philadelphia 36, Pa.
Young Spring & Wire Corp., L. A., 9200 Russell St., Detroit 11, Mich. (Garnish.)
Zenite Metal Corp., 201 N. West St., Indianapolis, Ind. "Alite." (Aluminum, brass and steel.)

MOLDS, Tire Recapping and Retreading

Akron Equipment Co., E. Exchange & Annadale St., Akron, Ohio. "Tyrwelder."
Bacon Vulcanizer Mfg. Co., 1267 67th St., Oakland 8, Calif.
Balloon Tire Mould Co., 527 Ceres Ave., Los Angeles 1, Cal. (Sectional.)
Center Line Mfg. Co., 503 N. Wichita St., Wichita, Kan.
Firestone Tire & Rubber Co., S. Main St., Akron, Ohio.
Heintz & Co., James C., 3738 W. 14th St., Cleveland, Ohio.
Lewis Equipment & Supply Co., 2740 Zuni St., Denver 11, Colo. "Tru-Cure."
Super Mold Corp. of Calif., 420 N. Sacramento St., Lodi 2, Cal. "Lodi."

MONORAILS—See Cranes, Monorail

MOTOR OIL, See Oils & Lubricants (Engine & Chassis)

MOTORS, Starting (Electric)

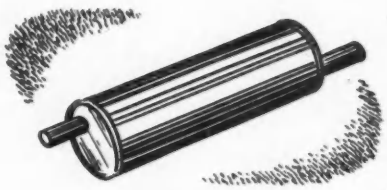
Auto-Lite Battery Corp., Owens-Dyneto Corp., 1920 Park St., Syracuse, N. Y.
Delco-Remy Div., General Motors Corp., Anderson, Ind.
Electric Auto-Lite Co., Toledo 1, Ohio. "Auto-Lite."
Electric Sprayit Co., 14th & Illinois Sts., Sheboygan, Wis. "Elsco."
Leece-Neville Co., 5363 Hamilton Ave., Cleveland 14, Ohio. "L-N."

MOUNTINGS, Rubber, Insulated

Anchor Rubber Products, Inc., 1725 London Rd., Cleveland 12, Ohio. "Steelastic."
Automotive Mfg. Co., 570 W. Fulton St., Chicago 22, Ill. "Amko."
Champ-Items, Inc., 6191 Maple Ave., St. Louis, Mo. (Engine, for Ford and Chevrolet cars.)
Doan Mfg. Corp., 1644 Doan Ave., East Cleveland 12, Ohio. "Armor-Flex."
Dryden Rubber Div., Sheller Mfg. Corp., 1014 S. Kildare Ave., Chicago 24, Ill.
Firestone Tire & Rubber Co., S. Main St., Akron, Ohio.
Goodrich Co., B. F., 500 S. Main St., Akron, Ohio. (Engine and radiator.)
Harris Products Co., 5105 Cowan Ave., Cleveland, Ohio. "Duflex."
Hewitt Rubber Div., Hewitt-Robins, Inc., Kensington Ave., Buffalo 5, N. Y.
Inland Mfg. Div.-General Motors Corp., 2727 Inland Ave., Dayton 1, Ohio.
Kreger Mfg. Co., L. F., 540 W. 35th St., Chicago 16, Ill. (Engine, for Ford cars.)
Lord Mfg. Co., 1635 W. 12th St., Erie, Pa. (Shear type.)
M B Mfg. Co., 1060 State St., New Haven 11, Conn. "Isomode."
Ohio Rubber Co., 300 Ben Hur Ave., Willoughby, Ohio. "Orco."
Powell Muffler Co., 729 Broad St., Utica 2, N. Y. (Engine.)
Raybestos-Manhattan, Inc., Manhattan Rubber Div., 61 Willet St., Passaic, N. J. "Manhattan."
Roberts Toledo Rubber Co., Prospect & MC R.R., Toledo 6, Ohio.
Rodic Rubber Corp., Allen Ave., New Brunswick, N. J.
Rubbercraft Corp. of Cal., Ltd., 110 E. 17th St., Los Angeles, Cal.
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y. (Engine.)

MUFFLERS, Exhaust

AP Parts Corp., AP Bldg., 1801 Spielbusch Ave., Toledo 1, Ohio. (For autos, buses, trucks and tractors.)
Aluminum Industries, Inc., 2438 Beekman St., Cincinnati 25, Ohio. "Permite."



Buffalo Pressed Steel Co., 4021 Mahoning Ave., Youngstown, Ohio.
Defiance Mfg. Co., Defiance, Ohio.
Donaldson Co., 666 Pelham Blvd., St. Paul 4, Minn. (Truck.)
Ero Mfg. Co., 714 W. Monroe St., Chicago, Ill.
Goerlich's, 619 Smith St., Toledo 1, Ohio.
Haviland Co., Arnold, Defiance, Ohio. "O. K."
Hayes Industries, Inc., Wildwood and Fern Aves., Jackson, Mich.
Hill Mfg. Co., C. L., 210 South Ave., E., Cranford, N. J. (Vacuum, for autos, trucks and tractors.)
International Parts Corp., 11th & State Sts., Chicago 5, Ill.
Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill. "Hy-Power."
McCord Corp., 2587 E. Grand Blvd., Detroit 11, Mich.
MacKenzie Muffler Co., N. Meridian Rd., Youngstown 9, Ohio.
Maremont Automotive Products, Inc., S. Ashland Ave. at 17th St., Chicago, Ill. "Maraloy." (Auto, truck and bus.)
Noblitt-Sparks Industries, Inc., Columbus, Ind.
Oldberg Mfg. Co., 620 N. Seventh St., Grand Haven, Mich.
Powell Muffler Co., 729 Broad St., Utica 2, N. Y.
Pratt Industries, Inc., Frankfort, N. Y.
Walker Mfg. Co. of Wis., Michigan & Hamilton Sts., Racine, Wis. "Exhaust Silencers." (Individually tuned.)

NOZZLES, Air

(See also Chucks, Air, Tire Inflating)

Aero-Motive Mfg. Co., 1803 Alcott St., Kalamazoo 24, Mich. "Zoo."
Aircraft Specialties, Inc., Howard & Higley Sts., Lapeer, Mich.
Binks Mfg. Co., 3114 Carroll Ave., Chicago 12, Ill.
Calvan Machine Products, Inc., 809 S. Water St., Jackson, Mich.
Clements Mfg. Co., 6650 S. Narragansett Ave., Chicago, Ill. "Clements-Cadillac."
Decora Mfg. Co., 1516 Park Ave., Emeryville 8, Calif.
Diamond-U Products, 8459 Dearborn Ave., South Gate, Calif.
Druge Bros. Mfg. Co., 888 92nd Ave., Oakland 3, Cal. "Tru-Flate."
Dutton-Lainson Co., Mfg. Div., Hastings, Neb. "Golden Rod."
Eastman Mfg. Co., 1002 N. 11th St., Manitowoc, Wis.
Eclipse Air Brush Co., 390 Park Ave., Newark 7, N. J.
240 Electric Sprayit Co., 14th & Illinois Sts., Sheboygan, Wis. "Sprayit."
Grayson Tool Co., Hastings, Neb.
Hansen Mfg. Co., 4031 W. 150th St., Cleveland 11, Ohio.
Imperial Brass Mfg. Co., 1234 W. Harrison St., Chicago 7, Ill.
International Metal Hose Co., Div. of Gabriel Co., 1523 E. 45th St., Cleveland 3, Ohio.
Koehler Rubber & Supply Co., 3865 Carnegie Ave., Cleveland 15, Ohio. "Tri-Con."
Lonn Mfg. Co., 131 E. New York St., Indianapolis 6, Ind.
Master Signal Co., 2465 W. Grand River Ave., Howell, Mich.
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
Norgren Co., C. A., 222 Santa Fe Drive, Denver 9, Colo.
Paasche Airbrush Co., 1909 Diversey Parkway, Chicago 14, Ill.
Planet Metal Products Corp., 964 Dean St., Brooklyn 16, N. Y.
Purfex Mfg. Co., 1830 Fairmount Ave., Philadelphia 30, Pa.
Romort Mfg. Co., Oakfield, Wis.
Scharoun Corp., Pulaski, N. Y.
Schrader's Son, Div. of Scovill Mfg. Co., A., 470 Vanderbilt Ave., Brooklyn 17, N. Y.
Sharpe Mfg. Co., 1224 Wall St., Los Angeles 15, Cal.
Sherman Mfg. Co., H. B., 22 Barney St., Battle Creek, Mich.
Superior Mfg. Co., Div. of Bingham Herbrand Corp., 1302 Ontario St., Cleveland 13, Ohio. "Bully."
Trico Fuse Mfg. Co., 2948 N. Fifth St., Milwaukee 12, Wis.
Universal Lubricating Systems, Inc., 747 Allegheny Ave., Oakmont, Pa.
Westinghouse Air Brake Co., Industrial Div., Wilmerding, Pittsburgh, Pa.
Zoerman-Clark Mfg. Co., Jackson, Mich.

NOZZLES, Fuel

(See also Pumps, Gasoline)

Buckeye Iron & Brass Works, Dept. C, Box 883, Dayton 1, Ohio. "Buckeye Safety-Fill Nozzle."

NOZZLES, PAINT SPRAY—See Sprayers, Paint, Varnish and Lacquer

NUTS, Lock and Self-Locking

American Nut & Bolt Fastener Corp., 2029 Doerr St., Pittsburgh 12, Pa.
Automatic Nut Corp., Lebanon, Pa. "Anco."
Boots Aircraft Nut Corp., 50 John St., Stamford, Conn. "Boots," "Hexlock." (Self-locking.)
Boss Bolt & Nut Co., 3403 W. 47th St., Chicago 32, Ill.
Dorman Products, Inc., 1004 Sycamore St. Cincinnati 2, Ohio.
Eaton Mfg. Co. (Reliance Spring Washer Div.), Massillon, Ohio.
Elastic Stop Nut Corp. of America, 2330 Vauxhall Rd., Union, N. J. "Esna." (Self-locking.)
Garrett Co., George K., 1421 Chestnut St., Philadelphia 2, Pa. "Diamond G."
Grip Nut Co., 310 S. Michigan Ave., Chicago 4, Ill. "Gripco."
Hill Nut Co., 2620 W. Flournoy St., Chicago 12, Ill. "Hillco."
Laminated Shim Co., 6205 Union St., Glenbrook, Conn. "An-Cor-Lox."
Lamson & Sessions Co., 1971 W. 85th St., Cleveland 2, Ohio.
Lock Thread Corp., 2833 E. Grand Blvd., Detroit 11, Mich. "Dardelet." (Licensors.)
National Screw & Mfg. Co., 2440 E. 75th St., Cleveland 4, Ohio. "Drake," "Dynamic," "Marsden," "Huglock."
Palnut Co., 54 Cordier St., Irvington 11, N. J. (Combination lock washer and nut.)
Prestole Corp., 1345 Miami St., Toledo 5, Ohio.
Russell, Burdsall & Ward Bolt & Nut Co., Port Chester, N. Y. "Marsden," "Tri-Slot." (Licenses.)
SKF Industries, Inc., Front St. & Erie Ave., Philadelphia 32, Pa. (Lock.)
Security Locknut Corp., 1815 N. Long Ave., Chicago 39, Ill.
Simmons Fastener Corp., N. Broadway, Albany, N. Y.
Standard Locknut & Lockwasher Co., 309 N. Capitol Ave., Indianapolis 4, Ind. (For ball and roller bearings.)
Standard Pressed Steel Co., Jenkintown, Pa. "Flexloc." (Self-locking.)
Stover Lock Nut & Machinery Corp., Bushkill Drive, Easton, Pa.
Swallow Airplane Co., 917 Lincoln St., Wichita 1, Kan.
Thompson-Bremer & Co., 1640 W. Hubbard St., Chicago 22, Ill.
Tinnerman Products, Inc., 2038 Fulton Rd., Cleveland 13, Ohio. "Speed Nuts." (Self-locking.)

AC QUALITY OIL FILTER ELEMENTS

Dirt-Proof

your engine oil

Your bus or truck engines will perform better, cost less to operate, use less fuel and oil, and cost less to repair, if you "Dirt-Proof" the oil with AC Quality Oil Filter Elements.

Hard-working engines need this kind of protection. And they deserve the very best in oil filter elements. AC's highest quality is now available to you in elements designed for your present filters, or in complete new filter installations.

And when it comes to operating costs, AC Quality Filters and Elements have a twenty-year record of real savings—all over the country, and in every kind of commercial vehicle on the road.

AC OIL FILTERS

AC SPARK PLUG DIVISION • GENERAL MOTORS CORPORATION

2241-1

NUTS, Lock and Self-Locking—cont.

United Screw & Bolt Corp., 3590 W. 58th St., Cleveland, Ohio.
Whittet-Higgins Co., P. O. Box 1613, Providence, R. I. (Lock, for ball and roller bearings.)

ODOMETERS

(See also Speedometer)

Knopf Instrument Co., 250 Culver Ave., Jersel City 5, N. J. "PeKa."
Stewart-Warner Corp., 1826 Diversey Parkway, Chicago, Ill.
United States Taximeter Co., 514 W. 54th St., New York 19, N. Y. "Ustcograph."
Veeder-Root Inc., 20 Sargeant St., Hartford 2, Conn.

OIL AND LUBRICANTS (Engine and Chassis)

Atlantic Refining Co., 260 S. Broad St., Philadelphia 1, Pa.
Cities Service Oil Co., 60 Wall Tower, New York, N. Y.
Continental Oil Co., Continental Oil Bldg., Ponca City, Okla.
Emerol Mfg. Co., 242 W. 69th St., New York, N. Y.
Esso Standard Oil Co., Esso Bldg., 15 W. 51st St., New York, N. Y.
Freedom Valvoline Oil Co., Freedom, Pa.
Gulf Oil Corp., Gulf Bldg., Pittsburgh 30, Pa.
Kendall Refining Co., 77 N. Kendall St., Bradford, Pa.
Lion Oil Co., El Dorado, Ark.
Mac Millan Petroleum Corp., 530 W. 6th St., Los Angeles 13, Calif.
Mid Continent Petroleum Corp., Tulsa 2, Okla.
Ohio Oil Co., Findlay, Ohio.
Pennsylvania Refining Co., 2686 Lisbon Rd., Cleveland 4, Ohio.
Pennzoil Co., Oil City, Pa.
Quaker State Oil Refining Co., Oil City, Pa.
Shell Oil Co., 100 Bush St., San Francisco 6, Calif.
Shell Oil Co., 50 W. 50th St., New York, N. Y.
Sinclair Refining Co., 630 Fifth Ave., New York, N. Y.
Socony-Vacuum Oil Co., 26 Broadway, New York, N. Y.
Sonneborn Sons, L., 300 Fourth Ave., Amalie Div., New York.
Standard Oil Co. of California, 225 Bush St., San Francisco 20, Calif.
Standard Oil Co. (Indiana), 910 S. Michigan Ave., Chicago, Ill.
Sun Oil Co., 1608 Walnut St., Philadelphia, Pa.
Texas Co., 135 E. 42nd St., New York, N. Y.
Tide Water Associated Oil Co., 17 Battery Place, New York 4, N. Y.
Valvoline Oil Co., 529 5th St., Cincinnati, Ohio.
Waverly Petroleum Products Co., 578 Drexel Bldg., 5th & Chestnut Sts., Philadelphia, Pa.
Wolf's Head Oil Refining Co., Oil City, Pa.

OIL CANS, See Cans, Oiling

OIL DRAINERS, See Drainers, Crankcase Oil

OIL FILTERS, See Filters, Oil

OIL GAGES, See Gages, Oil Pressure

OIL AND GREASE ABSORBENTS (Floor), See Absorbents, Oil & Grease (Floor)

OIL RECLAIMERS, See Reclaimers, Crankcase Oil

OIL RETAINING RINGS & SEALS, See Retainers, Oil & Grease

OIL TANKS, See Tanks and Systems, Gasoline and Oil Storage; also Tanks, Oil (Portable)

OIL TESTING INSTRUMENTS, See Viscosimeters

OILERS, UPPER CYLINDERS, See Lubricators, Upper Cylinders

OILS, PENETRATING, See Rust Preventives

OILS, Upper Cylinder

A P Parts Corp., A P Bldg., 1801 Spielbusch Ave., Toledo 1, Ohio. "M P."
Acheson Colloids Corp., 1925 Washington Ave., Port Huron, Mich. "Dag," "Oildag."
Alox Corp., 70 Pine St., New York 5, N. Y.
Atlantic Refining Co., 260 S. Broad St., Philadelphia 1, Pa.
Automotive & Marine Products Co., 87 Harvard Ave., Boston 34, Mass.

If you cannot find the product classification you seek, see "Specialized Products," on Page 254.

Baltimore Paint & Color Works, 148 S. Calverton Rd., Baltimore, Md. "Colonel Speedy."
Barton Products Co., 2765 St. Mary's Court, Chicago 47, Ill.
Bell Co., 411 N. Wolcott Ave., Chicago 22, Ill. "Bell's," "Flare."
Bowes "Seal Fast" Corp., 228 N. Pine St., Indianapolis 7, Ind. "Bowes Valv-Aid."
Carbide & Carbon Chemicals Corp., 30 E. 42nd St., New York 17, N. Y.
Casite Corp., Hastings, Mich.
Castor Oil Products, Inc., 145 Alexander St., Yonkers 2, N. Y. "Trizol."
Celco Corp., 110 E. 42nd St., New York 17, N. Y.
Christy Chemical Corp., 21 Putnam St., Worcester 4, Mass.
Curran Corp., S. Canal St., Lawrence, Mass. "Motor Fizik," "Gunk Dunk."
Dacar Chemical Products Co., Wabash & McCartney Sts., Pittsburgh 20, Pa. "Mototuner."
Drew & Co., E. F., 15 E. 26th St., New York 10, N. Y. "Drew-Purge."
Durkee-Atwood Co., 215 Seventh St., N. E., Minneapolis 13, Minn.
Electro Products Co., 445 E. 189th St., New York 58, N. Y. "Dyna-Vita."
Emerol Mfg. Co., 242 W. 69th St., New York 23, N. Y. "Marvel Mystery Oil."
Ensign Products Co., 3528 E. 76th St., Cleveland 5, Ohio.
Esso Standard Oil Co., 15 W. 51st St., New York 19, N. Y.
Excelo Mfg. Co., 1107 S. Fremont Ave., Alhambra, Calif. "Xlube."
Grafo Colloids Corp., Grafo Bldg., 310 Wilkes Place, Sharon, Pa. "Grafolene."
Gulf Oil Corp., Gulf Bldg., Pittsburgh 30, Pa.
Hollingshead Corp., R. M., 840 Cooper St., Camden, N. J. "Whiz Motor Rythm."
Houghton & Co., E. F., 303 W. Lehigh Ave., Philadelphia 33, Pa. "S.M.L.," "MFC."
International Metal Polish Co., 1910 Quill St., Indianapolis, Ind. "Blue Ribbon."
Kano Laboratories, 75 E. Wacker Drive, Chicago 1, Ill. "Kano Kreen."
Lubaid Co., 155 E. Kilbourn St., Milwaukee 1, Wis.
Lubri-Gas International, Inc., 221 N. La Salle St., Chicago 1, Ill.
Mergraf Oil Products Co., P. O. Box 95, Northville, Mich. "Topper."
National Refining Co., 500 Hanna Bldg., 14th & Euclid Ave., Cleveland 15, Ohio. "Enarco Tune."
Pennsylvania Refining Co., Butler Savings & Trust Bldg., Butler, Pa. "Penn Drake Gumout," "Fuel Mix."
Permatex Co., 1720 Ave. Y, Brooklyn 29, N. Y. "Permatex Toon-Oyl."
Petroleum Solvents Corp., 331 Madison Ave., New York 17, N. Y. "Siloo."
Purfex Mfg. Co., 1830 Fairmount Ave., Philadelphia 30, Pa.
Pyroil Co., 122 Main St., La Crosse, Wis.
Radiator Specialty Co., 1722 Dowd St., Charlotte 1, N. C. "Nu-Power."
Randall Products Mfg. Co., 100 N. Moore St., New York 13, N. Y. "Motor-Kleen."
Reliance Battery Products Co., 2211 S. Eighth St., Council Bluffs, Iowa. "Motor Magic."
Rust Master Chemical Corp., 50 Creighton St., Boston, Mass. "Six Master."
Service Supply Co., 1115 Seventh St., Denver 2, Colo. "Noxo."
Shaler Co., Waupun, Wis. "Karbout," "Rislone."
Shell Oil Co., 50 W. 50th St., New York 20, N. Y. "Donax," "Shell."
Socony-Vacuum Oil Co., 26 Broadway, New York 4, N. Y. "Mobil Upperlube."
Sonneborn Sons, Inc., L., 88 Lexington Ave., New York 16, N. Y. "Gas-Lube."
Speaker Corp., J. W., 3059 N. Weil St., Milwaukee 12, Wis. "Fretone."
Standard Oil Co. (Indiana), 910 S. Michigan Ave., Chicago 80, Ill. "Stano-Vim."
Standard Oil Co. of Texas, 1600 City National Bank Bldg., Houston, Tex. "RPM."
Stanley Co., John T., 642 W. 30th St., New York, N. Y. "Stanley's Motor Pep."
Sure-Rite Products Corp., 2731 N. Sixth St., Philadelphia 33, Pa.
Tumbler Laboratories, J. A., 423 S. Hanover St., Baltimore 1, Md.
Turco Products, Inc., 6135 S. Central Ave., Los Angeles, Calif. "Turco Cranksol."
U. S. Chemical & Supply Co., 1424 McGee St., Kansas City, Mo. "Z-4."
United States Aviex Co., 1350 Maple St., Niles, Mich.
Universal Chemists, 107 Northampton St., Boston, Mass. "Pow'r-Lux."
V-O Mfg. Co., 13245 Sherman Way, North Hollywood, Calif.
W. & W. Auto Finishes, Inc., United Bldg., Greenleaf St., Boston 15, Mass. "Rust-O-Oil."
Warner-Patterson Co., 920 S. Michigan Ave., Chicago 5, Ill. "Warner Penetreen."
Warwick Laboratories Co., 334 Cleveland St., Brooklyn 8, N. Y. "Warco K.O.Carb," "Warco Mo-Tun-Up."
Watts-Wagner Co., 113 Frelinghuysen Ave., Newark 5, N. J. "Carbon-Ex," "Friction 'Eez."
Waverly Petroleum Products Co., 1724 Chestnut St., Philadelphia 3, Pa. "Waverly UVX-4."
White & Bagley Co., 100 Foster St., Worcester, Mass. "Oilzum Vitalube."
Wilco Co., 4425 Bandini Blvd., Los Angeles 23, Calif.
Wynn Oil Co., 1151 W. Fifth St., Azusa, Calif. "Wynn's."
Zip Abrasive Co., 1360 W. Ninth St., Cleveland 13, Ohio. "Jack."

OVENS, Bonding (Brake Lining)

Asbestos Mfg. Co., E. Sabine St., Huntington, Ind. "Amco."
Dura-Bond, Inc., 1355 N. Main St., Ann Arbor, Mich. "Brake-Bond," "Dura-Bond."
Goodyear Tire & Rubber Co., E. Market St., Akron 16, Ohio.
Huppert Co., K. H., 6830 Cottage Grove Ave., Chicago 37, Ill.
Lapeer Mfg. Co., 3056 Davidson Rd., Lapeer, Mich. "Knu-Bonder."
Miley Co., L. J., 18 S. Sangamon St., Chicago 7, Ill.

PAINT DRYING LAMPS, See Lamps, Drying, Baking & Heating

PAINT MASKING, See Masking, Liquid and Tape

PAINT SPRAY BOOTHS, See Booths, Spraying (Paint and Varnish)

PAINT REMOVERS, See Removers, Paint, Enamel and Varnish

PAINTS

(See Enamels; also Lacquer)

PAINTS, Acid-Resisting

Frost Paint & Oil Corp., 1209 Tyler St., N. E., Minneapolis 13, Minn. "Frost's Kapak."
Perolin Co., 10 E. 40th St., New York 16, N. Y. "Durabel."
Prufcoat Laboratories, Inc., 63 Main St., Cambridge 42, Mass.
Quigley Co., 527 Fifth Ave., New York 17, N. Y. "Triple-A."
Sherwin-Williams Co., 101 Prospect Ave., N. W., Cleveland 1, Ohio.
Sonneborn Sons, L., 88 Lexington Ave., New York 16, N. Y.
Vita-Var Corp., 46 Albert Ave., Newark, N. J.

PAINTS, Alkali Resisting

Prufcoat Laboratories, Inc., 63 Main St., Cambridge 42, Mass.
Quigley Co., 527 Fifth Ave., New York 17, N. Y. "Triple-A."
Sherwin-Williams Co., 101 Prospect Ave., N. W., Cleveland 1, Ohio.
Vita-Var Corp., 46 Albert Ave., Newark, N. J.

PAINTS, Aluminum and Bronze

Aluminum Co. of America, Gulf Bldg., Pittsburgh 19, Pa. "Alcoa Albron." (Aluminum powder and paste; pigments for aluminum paint.)
Aluminum Industries, Inc., 2438 Beekman St., Cincinnati 25, Ohio. "Permite."
Baer Bros., 438 W. 37th St., New York, N. Y. (Aluminum bronze powder.)
Baltimore Paint & Color Works, 148 S. Calverton Rd., Baltimore, Md. "Kartex."
Bownes Co., Frank, 305 Eastern Ave., Chelsea, Mass. "Modene."
Campbell Paint & Varnish Co., Div. Glidden Co., 106 Gratiot St., St. Louis 2, Mo. "Glidden Quality."
Finch, Ltd., Leon, 728 E. 59th St., Los Angeles 1, Cal.

TIRE FAILURES REDUCED 66% with Firestone

R-5° FULL ADVANCED RIMS

TWELVE months and no bead failures with tires on Firestone R-5° Rims, as against 10 tires scrapped *every month* on old style rims. And only 18 tire failures in 849,000 truck miles as against 55 failures on old style rims — that's 66% fewer failures. No wonder Boss Linco Lines are sold on the tire-saving, money-saving advantages of these new truck rims.

Firestone R-5° Rims are made with *full-width* 5° tapered bead seats on both sides, and have new *full-height* flanges. Tires seat firmly on the rim without rocking or wobbling. Bead chafing and excess body strains are eliminated. Tires stay in service for full original tread mileage and plenty of retread miles. For complete information on how Firestone Full Advanced Rims will save you money by reducing tire losses, see your nearest Firestone Rim Distributor today.*

BOSS · LINCO LINES

DEPENDABLE TRANSPORTATION

DIVISION OF LINCOLN STORAGE AND CARTING, INC.

GENERAL OFFICES — 226 OHIO STREET — BUFFALO 4, N. Y.

Mr. Fred Weigel
Frey the Wheelman
520 Ellicott
Buffalo, New York

July 12,1949

Dear Mr. Weigel:

We thought you would be interested in a few accurate facts and figures on what the Firestone 5° Rims have done for us. Our Company operates over 200 vehicles in our common carrier division; the Boss Linco Lines Division of Lincoln Storage and Carting, Inc., consisting of over 1100 rolling wheels, mainly equipped with 1000X22 Tires.

In June of 1948, we purchased 100 Firestone 5° Rims and another 312 Firestone 5° Rims by new equipment purchases. Our Fleet, in the past, was really tough on tires. Heat blows, bead blowouts, and bead wear, were robbing our Fleet of ten tires per month. Many of these casings still had many miles left in original tread: others were rejected for recap due to worn beads.

Well, twelve months have passed, and we have yet to replace a tire for a bad bead on a 5° Rim. Another interesting fact is that: From January 1 to April 30, 1948, we experienced 55 tire failures in 822,250 vehicle miles -- an average of 14,951 miles per failure. From January 1 to April 30,1949, we experienced 18 tire failures in 849,849 vehicle miles -- an average of 47,214 miles per vehicle tire failure.

Remember, our actual tire miles would be ten times these figures, as our Fleet is comprised of tractor-trailer units equipped with ten or more tires.

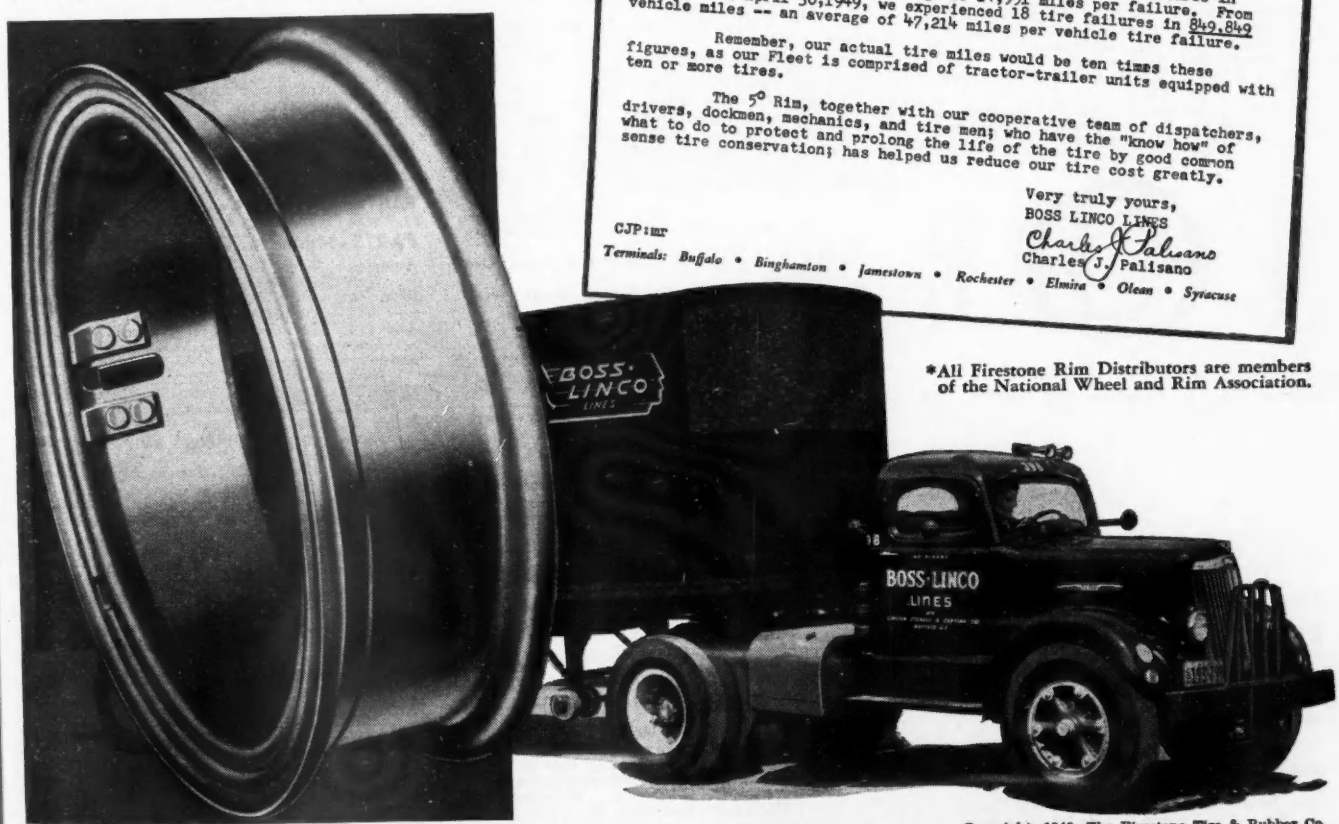
The 5° Rim, together with our cooperative team of dispatchers, drivers, dockmen, mechanics, and tire men; who have the "know how" of what to do to protect and prolong the life of the tire by good common sense tire conservation; has helped us reduce our tire cost greatly.

Very truly yours,
BOSS LINCO LINES
Charles J. Palisano
Charles J. Palisano

CJP:mr

Terminals: Buffalo • Binghamton • Jamestown • Rochester • Elmira • Olean • Syracuse

*All Firestone Rim Distributors are members of the National Wheel and Rim Association.



Listen to the Voice of Firestone every Monday evening over NBC

Copyright, 1949, The Firestone Tire & Rubber Co.

3820-1

PAINTS, Aluminum and Bronze—cont.

Forbes Finishes Div., Pittsburgh Plate Glass Co., 2800 W. 148th St., Cleveland 11, Ohio. (Aluminum.)
Frost Paint & Oil Corp., 1209 Tyler St., N. E., Minneapolis 13, Minn. "Frospar." (Aluminum.)
Illinois Bronze Powder Co., 2015 S. Clark St., Chicago 16, Ill. "Illbronze."
Morris Paint & Varnish Co., 1823 Washington Ave., St. Louis 3, Mo. "Chrombrite." (Aluminum.)
Plastic-Kote, Inc., 425 Lakeside Ave., N. W., Cleveland 13, Ohio.
Reynolds Metals Co., Pigment Div., 19 E. 47th St., New York 17, N. Y. (Aluminum powders and pastes.)
Sherwin-Williams Co., 101 Prospect Ave., N. W., Cleveland 1, Ohio.

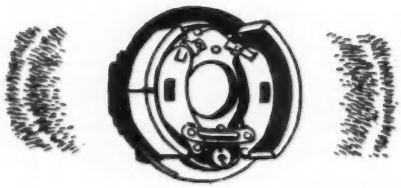
PANELS, Plywood

Harbor Plywood Corp., Hoquiam, Wash. "Harbord," "Super-Harbord," "Harborite."
Haskelite Mfg. Corp., 701 Ann St., N. W., Grand Rapids 2, Mich. "Haskelite," "Plymetl," "Phemaloid," "Plymold."
Met-L-Wood Corp., 6755 W. 65th St., Chicago 38, Ill. (Metal covered.)
Technical Ply-Woods, 228 N. La Salle St., Chicago 1, Ill.
United States Plywood Corp., Weldwood Bldg., 55 W. 44th St., New York 18, N. Y. "Weldwood," "Armorply," "Tekwood," "Honeycomb," "Flexwood."

PANELS, STEEL, See Steel, Sheet

PARTS, Brake

Accurate Products, Inc., 720 E. Washington St., Indianapolis 2, Ind.
Bendix Products Div., Bendix Aviation Corp., 401 Bendix Drive, South Bend 20, Ind. "B-K."
Bendix Westinghouse Automotive Air Brake Co., 901 Cleveland Road, Elyria, Ohio. (Air.)
Chefford Master Mfg. Co., Fairfield, Ill. "Master." (Hydraulic.)
Clawson & Bals, Inc., Holland, Mich. (Hydraulic.)
Dorman Products, Inc., 1004 Sycamore St., Cincinnati 2, Ohio. (Yokes.)
Edelmann & Co., E., 2332 Logan Blvd., Chicago 47, Ill. "Leak Not." (Hydraulic.)
Eis Automotive Corp., Middletown, Conn. (Hydraulic and mechanical.)
Grizzly Mfg. Co., 700 W. Caroline St., Paulding, Ohio. (Hydraulic.)
Hydraulic Specialties Co., 65 Burbank Dr., Snyder 21, N. Y. "Hyspeco." (Hydraulic pressure limiting valves.)



Jambor Tool & Stamping Co., 3057 N. 30th St., Milwaukee, Wis. "Bull Dog." (Hydraulic, for Ford and Chevrolet cars.)
Kelsey-Hayes Wheel Co., 3600 Military Ave., Detroit 32, Mich. "Lathan." (Vacuum power brake valves and chambers.)
Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill. (Hydraulic.)
Machined Parts Corp., 6209 Hamilton Ave., Detroit, Mich. "Mapco."
Midland Steel Products Co., 6666 Mt. Elliott Ave., Detroit 11, Mich. (Air conversion valve kit.)
Miley Co., L. J., 18 S. Sangamon St., Chicago 7, Ill.
Monroe Standard, Inc., Galion, Ohio.
Motive Equipment Mfrs., Inc., 5253 W. Roosevelt Rd., Chicago 50, Ill. "Pilot." (Hydraulic.)
National Ignition Mfg. Co., 521 W. 23rd St., New York, N. Y. "Nimco." (Hydraulic.)
New York Air Brake Co., 420 Lexington Ave., New York 17, N. Y. "Hycon." (Hydraulic pressure limiting valves.)
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill. (Hydraulic.)
Otto Items, Inc., 4390 Olive St., St. Louis 8, Mo. "Tru-Torque." (Hydraulic.)
Power Brake Parts Mfg. Co., 8060 Wheeler Ave., Detroit 10, Mich. (Vacuum power brake valves.)
Raybestos-Manhattan, Inc., Manhattan Rubber Div., 61 Willet St., Passaic, N. J. "Manhattan."
Seale, Inc., Homer T., 5320 Alhambra St., Los Angeles 32, Calif. "Sealco." (Relay emergency valve, for trailers.)
Supco Products Corp., S. Bayview Ave., Amityville, L. I., N. Y. (Hydraulic and vacuum power booster.)
Thermoid Co., 200 Whitehead Rd., Trenton 6, N. J.
United Parts Mfg. Co., 1250 W. Van Buren St., Chicago, Ill. (Hydraulic.)
Van Bergen & Greener, Inc., 1619 N. Hayne Ave., Chicago 47, Ill. "Van." (Master cylinders.)
Vari-Products Co., 2450 S. Prairie Ave., Chicago 16, Ill. (Vacuum tanks.)
Velvac, Inc., 3530 W. Pierce St., Milwaukee 4, Wis. (Vacuum power, for trucks and trailers.)
Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo. "Lockheed." (Air and hydraulic.)
Weatherhead Co., 300 E. 131st St., Cleveland 8, Ohio. (Hydraulic.)

PARTS, Carburetor

Alloy Mfg. Co., 3207 S. Shields Ave., Chicago 16, Ill. "Quality Built."
Hygrade Products Div., Standard Motor Products, Inc., 35-35 35th St., Long Island City, N. Y.
International Spare Parts Co., 5-01 46th Rd., Long Island City 1, N. Y.
National Machine Works, Inc., 2414 S. Robinson Ave., Oklahoma City 9, Okla.
Parts Mfg. Co., 311 W. 66th St., New York 23, N. Y. "Parco."
Precision Automotive Components Co., 1312 S. Grand Blvd., St. Louis 4, Mo. "Pacco."
Simmons Mfg. Co., Ashland, Ohio.
Sorensen Mfg. Co., P., 32-31 57th St., Woodside, N. Y.

PARTS, Clutch

Accurate Parts Mfg. Co., 12435 Euclid Ave., Cleveland 6, Ohio. (Pressure assembly component parts.)
Automotive Mfg. Co., 570 W. Fulton St., Chicago 22, Ill. "Amko." (Forks.)
Automotive Replacements, Inc., 55 E. 26th St., Chicago 16, Ill.
Dorman Products, Inc., 1004 Sycamore St., Cincinnati 2, Ohio.
Elgin Machine Works, 412 N. State St., Elgin, Ill.
Evco Products Co., 160 W. 62nd St., New York 23, N. Y.
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio. (Sole distributors to replacement trade, Lempco Automotive, Inc., 2953 E. 55th St., Cleveland 4, Ohio.)
Monmouth Products Co., 6545 Carnegie Ave., Cleveland 3, Ohio. (Springs and fork kits.)
Parts Mfg. Co., 311 W. 66th St., New York 23, N. Y. "Parco."
Perfection Gear Co., 152nd St. & Vincennes Ave., Harvey, Ill. (Clutch cover assembly parts.)
Perfect Parts, Inc., 55 Amsterdam Ave., New York, N. Y.
Wohlert Corp., 700 E. Grand River Ave., Lansing 6, Mich.

PARTS, Front End Suspension

Automotive Mfg. Co., 570 W. Fulton St., Chicago 22, Ill. "Amko."
Automotive Replacements, Inc., 55 E. 26th St., Chicago 16, Ill.
Champ-Items, Inc., 6191 Maple Ave., St. Louis 14, Mo.
Hershey Metal Products Co., Geary Div., Derby 2, Conn.
King Quality Products Co., 2320 Marconi St., St. Louis 10, Mo.
Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill.
McQuay-Norris Mfg. Co., 2320 Marconi Ave., St. Louis 10, Mo.
Merrill Engineering Laboratories, 1230 Lincoln St., Denver 3, Colo. (Knee action coil springs.)
Monmouth Products Co., 6545 Carnegie Ave., Cleveland 3, Ohio.
Moog Coil Action Parts Co., Div. of Moog Industries, 6650 Easton Ave., St. Louis 14, Mo.
Parts Mfg. Co., 311 W. 66th St., New York 23, N. Y. "Parco."
Pressed Metals of America, Inc., Port Huron, Mich. (Distributors to replacement trade, McQuay-Norris Mfg. Co., Connersville, Ind.; Thompson Products, Inc., Cleveland, Ohio.)
Sure-Rite Products Corp., 2731 N. Sixth St., Philadelphia 33, Pa.
Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio.
Toledo Steel Products Co., 3300 Summit St., Toledo 11, Ohio.
Tuthill Spring Co., 760 Polk St., Chicago 7, Ill.
Vulcan Spring Co., 755 Lexington St., Chicago 7, Ill.
Warner Machine Products, Inc., 1200 Rochester St., Muncie, Ind. (For Chevrolet cars.)

PARTS, Fuel Pump

Accurate Products, Inc., 720 E. Washington St., Indianapolis 2, Ind. (Push rods.)
Airtex Automotive Div., Chefford Master Mfg. Co., Fairfield, Ill.
Alloy Mfg. Co., 3207 S. Shields Ave., Chicago 16, Ill. "Quality Built."
Blackstone Mfg. Co., 4630 W. Harrison St., Chicago 44, Ill. "Air Link."
Champ-Items, Inc., 6191 Maple Ave., St. Louis, Mo.
Chefford Master Mfg. Co., Fairfield, Ill. "Master."
Clawson & Bals, Inc., 2508 S. Michigan Ave., Chicago 16, Ill.
Hygrade Products Div., Standard Motor Products, Inc., 35-35 35th St., Long Island City, N. Y. "Monoflex."
International Spare Parts Corp., 5-01 46th Rd., Long Island City 1, N. Y.
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.
Kreger Mfg. Co., L. F., 540 W. 35th St., Chicago 16, Ill. (For A. C. pumps.)
Murray Auto Specialty Co., 1228 S. Olive St., Los Angeles 15, Cal. "Masco."
National Ignition Mfg. Co., 521 W. 23rd St., New York, N. Y. "Nimco."
Ottawa Steel Products, Inc., 745 Woodlawn Ave., Grand Rapids, Mich. (Shafts.)
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
Simmons Mfg. Co., Ashland, Ohio. (For Ford, Chevrolet and Plymouth cars.)
United Parts Mfg. Co., 1250 W. Van Buren St., Chicago, Ill. (For A. C. pumps.)
Van Bergen & Greener, Inc., 1619 N. Hayne Ave., Chicago 47, Ill. "Van."

PARTS, Generator

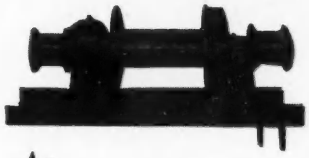
International Spare Parts Corp., 5-01 46th Rd., Long Island City 1, N. Y.
Koch Mfg. Co., 3401 Jewel St., Louisville 12, Ky. (Fans.)
Machine Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich.
National Ignition Mfg. Co., 521 W. 23rd St., New York, N. Y. "Nimco."
Paragon Products Corp., 156 Astor St., Newark 5, N. J. "Vulcan." (Sole distributors, Vulcan Motor Products, Inc., 1060 Broad St., Newark 2, N. J.)
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
Valley Forge Products, Inc., 35-20 Skillman Ave., Long Island City 1, N. Y.

PARTS, LIST, See List, Parts

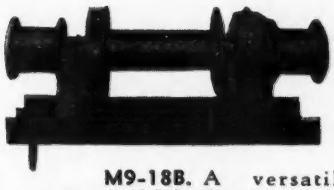
PARTS, Magneto, Coil and Distributor

American Hard Rubber Co., 11 Mercer St., New York 12, N. Y.
American Motor Products Co., Fond du Lac, Wis. "Ampco." (Distributor rotors.)
Andrews Mfg. Co., 924 S. Theresa Ave., St. Louis 3, Mo. (Caps and rotors.)
Automotive Specialty Corp., 1562 DeKalb Ave., Brooklyn 27, N. Y.
Echlin Mfg. Co., 220 East St., New Haven, Conn. (Coil and distributor.)
F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill. "Filko." (Distributor caps and rotors.)
Guaranteed Parts Co., Seneca Falls, N. Y. "GP." (Rotors.)
Hove Spark-O-Liner Corp., 601 11th Ave., S., Minneapolis 4, Minn. "Spark-O-Liner." (Distributor saver rings.)
Lothrop Co., Frank B., 81 River St., South Acton, Mass. "Tiger." (Distributor plates, for Ford cars.)
Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich. "Mapco."
Monarch Insulated Wire Co., 491 Broadway, New York 12, N. Y. (Distributor heads and rotors.)
National Ignition Mfg. Co., 521 W. 23rd St., New York, N. Y. "Nimco."
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.
P & D Mfg. Co., 1902 Steinway St., Long Island City, L. I., N. Y.
Paragon Products Corp., 156 Astor St., Newark 5, N. J. "Vulcan." (Distributor plates, etc., sole distributors, Vulcan Motor Products, Inc., 1060 Broad St., Newark 2, N. J.)
Perfection Automotive Products Corp., 925 W. Elizabeth St., Detroit 1, Mich. (Distributor caps and nipples.)
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
Shurhit Products, Inc., Waukegan, Ill. (Distributor caps and rotors.)

MU3-10F. An extremely sturdy underslung model for front end mounting. Safe Working Load: 6,000 lbs.

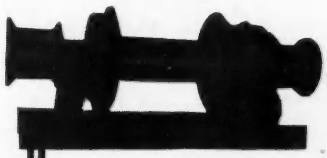


M6-15B. Safe Working Load: 12,000 lbs. Equipped with the New OIL COOLED, FULLY ADJUSTABLE AUTOMATIC SAFETY BRAKE.



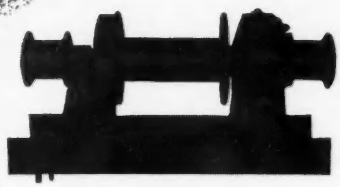
M9-18B. A versatile model for handling loads up to 18,000 lbs. For use on 1½ to 2½ ton trucks. Safe, dependable, GUARANTEED.

CHOOSE YOUR *Model* FOR ANY HANDLING JOB

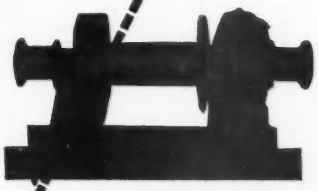


M12-18B. For tough jobs that require handling loads up to 25,000 lbs. For use on 1½ to 2½ ton trucks.

M18-18B. A new Braden Model for handling loads up to 36,000 lbs. Works well on medium or heavy-duty trucks.



M30-20B. A 60,000 lb. capacity model that can keep heavy loads under perfect control. Designed for safety and ease of operation.



M50-20B. The truck winch with the greatest capacity ever built on a standard production basis. Safe Working Load: 100,000 lbs.

Yes, there is a BRADEN winch for any handling job. Models are available with a capacity of 6,000 to 100,000 pounds. Each winch has built-in safety features designed and perfected for exclusive use by BRADEN. Write for complete information, or see your nearest Braden dealer.

BUY BRADEN—They Are Safer

BRADEN WINCH COMPANY **TULSA 1,**

Post Office Box 1709 Oklahoma

BRADEN *Winches* IN SERVICE AROUND THE WORLD

PARTS, Magneto, Coil and Distributor —cont.

Sorenson Mfg. Co., P., 32-31 57th St., Woodside, N. Y. (Distributor heads and rotors.)
Specialty Insulation Mfg. Co., Hoosick Falls, N. Y. (Distributor caps.)
Standard Motor Products, Inc., 3718 Northern Blvd., Long Island City, L. I., N. Y. "Blue Streak," "Standard." (Distributor heads and rotors.)
Synchromatic Mfg., Inc., 101 Bird Ave., Jackson, Mich. (Distributor plates.)
Tungsten Contact Mfg. Co., 7311 Cottage Ave., North Bergen, N. J. (Caps and rotors.)
Valley Forge Products, Inc., 35-20 Skillman Ave., Long Island City 1, N. Y.
Van Bergen & Greener, Inc., 1619 N. Hoyne Blvd., Chicago 47, Ill. "Van." (Distributor.)
Wells Mfg. Corp., 200 W. Division St., Fond du Lac, Wis. "Wells," "Super Go." (Distributor caps and rotors.)
Whitaker Cable Corp., 1301 Burlington Ave., North Kansas City 16, Mo. (Distributor.)

PINS, King

Aluminum Industries, Inc., 2438 Beekman St., Cincinnati 25, Ohio. "Permite."
Andrew Parts Mfg. Co., 49 Amsterdam Ave., New York 23, N. Y.
Austin Trailer Equipment Co., 1148 W. Western Ave., Muskegon, Mich. (Trailer.)
Automotive Mfg. Co., 570 W. Fulton St., Chicago 22, Ill. "Amko."
Bard Mfg. Co., Royersford, Pa.
Bohn Aluminum & Brass Corp., 1400 Lafayette Bldg., Detroit 26, Mich.
Brown Corp., 213 Bellevue Ave., Syracuse, N. Y.
Chicago Screw Co., 2701 Washington Blvd., Bellwood, Ill.
Clawson & Bals, Inc., Holland, Mich. "Ring True."
Elgin Machine Works, 412 N. State St., Elgin, Ill.
Fostoria Screw Co., 250 E. Fourth St., Fostoria, Ohio.
Jambor Tool & Stamping Co., 3057 N. 30th St., Milwaukee, Wis. "Bull Dog." (For Ford cars.)
King Quality Products Co., 2320 Marconi St., St. Louis 10, Mo.
Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill.
McQuay-Norris Mfg. Co., 2320 Marconi Ave., St. Louis, Mo.
Monmouth Products Co., 6545 Carnegie Ave., Cleveland 3, Ohio.
Oliver Iron & Steel Corp., 1001 Muriel St., Pittsburgh, Pa.
Parts Mfg. Co., 311 W. 66th St., New York 23, N. Y. "Parco."
Perfection Spring Co., 3721 King Ave., Cleveland 14, Ohio.
Precision Parts Co., Div. Economy Baler Co., 1200 N. Main St., Ann Arbor, Mich.
Sealed Power Corp., 500 Sanford St., Muskegon, Mich.
Shuler Axle Co., 2901 S. Second St., Louisville 8, Ky.
Speedway Products Co., 1402 E. 20th St., Indianapolis 7, Ind.
Superior Machine Tool Co., 329 E. Firmin St., Kokomo, Ind.
Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio.
Toledo Steel Products Co., 3300 Summit St., Toledo 11, Ohio.
Trayer Products, Inc., E. Clinton St., Elmira, N. Y.
Western Automatic Machine Screw Co., 752 Lake Ave., Elyria, Ohio.
Wohlert Corp., 700 E. Grand River Ave., Lansing 6, Mich.

PINS, Piston

Allied Motor Parts Corp., Fox Theatre Bldg., Detroit, Mich.
Aluminum Industries, Inc., 2438 Beekman St., Cincinnati 25, Ohio. "Permite."
Bohn Aluminum & Brass Corp., Detroit, Mich.
Brown Corp., 313 Bellevue Ave., Syracuse, N. Y.
Burgess-Norton Mfg. Co., 758 Peyton St., Geneva, Ill. "B-N Perfectlap."
Chefford Master Mfg. Co., Fairfield, Ill.
Clawson & Bals, Inc., Holland, Mich.
Elgin Machine Works, 412 N. State St., Elgin, Ill.
Ertel Machine Co., 2045 Martindale Ave., Indianapolis 7, Ind.
Evco Products Co., 160 W. 62nd St., New York 23, N. Y.
Fostoria Screw Co., 250 E. Fourth St., Fostoria, Ohio.
King Quality Products Co., 2320 Marconi St., St. Louis 10, Mo.
Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill.
McQuay-Norris Mfg. Co., 2320 Marconi St., St. Louis, Mo.
Marquette Metal Products Co., 1145 Galewood Drive, Cleveland 10, Ohio.
Monmouth Products Co., 6545 Carnegie Ave., Cleveland 3, Ohio.
Nylen Products Co., Lake Shore Drive, St. Joseph, Mich.
Ohio Piston Co., 5342 Hamilton Ave., Cleveland 14, Ohio.
Ottawa Steel Products, Inc., 745 Woodlawn Ave., Grand Haven, Mich. "OSP."
Perfect Parts, Inc., 55 Amsterdam Ave., New York 23, N. Y.
Precision Parts Co., Div. Economy Baler Co., 1200 N. Main St., Ann Arbor, Mich.
Sealed Power Corp., 500 Sanford St., Muskegon, Mich.
Simplex Products Corp., 3830 Kelly Ave., Cleveland, Ohio.
Speedway Products Co., 1402 E. 20th St., Indianapolis 7, Ind.
Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio.
Toledo Steel Products Co., 3300 Summit St., Toledo 11, Ohio.
White Machine Works, 1401 Bellevue Ave., Eau Claire, Wis. "Superior."

PIPES, Tail and Exhaust

AP Parts Corp., AP Bldg., 1801 Spielbusch Ave., Toledo 1, Ohio.
Aluminum Industries, Inc., 2438 Beekman St., Cincinnati 25, Ohio. (Flexible.)
Buffalo Pressed Steel Co., 4021 Mahoning Ave., Youngstown, Ohio.
Chicago Metal Hose Corp., 1315 S. Third Ave., Maywood, Ill. "Rex-Tube." (Bendable.)
Everhot Products Co., 2001 W. Carroll Ave., Chicago 12, Ill. "Uniflex." (Bendable.)
Formed Tubes, Inc., Sturgis, Mich.
Goerlich's, 619 Smith St., Toledo 1, Ohio.
Haviland Co., Arnold, Defiance, Ohio. (Also exhaust.)
International Parts Corp., 11th & States Sts., Chicago 5, Ill.
McCord Corp., 2587 E. Grand Blvd., Detroit 11, Mich.
Maremont Automotive Products, Inc., S. Ashland Ave. at 17th St., Chicago, Ill. (Also bendable.)
Miller-Shelby Products Div., Michigan Steel Tube Products Co., 9450 Buffalo Blvd., Detroit 12, Mich.
Noblitt-Sparks Industries, Inc., Columbus, Ind. (Exhaust.)
Powell Muffler Co., 729 Broad St., Utica 2, N. Y.
Pratt Industries, Inc., Frankfort, N. Y. (Also bendable.)
Ryder Mfg. Co., 220 N. Ada St., Chicago 7, Ill. (Flexible tail.)
Walker Mfg. Co. of Wis., Michigan & Hamilton Sts., Racine, Wis.

PISTON EXPANDERS, See Expanders, Piston Skirt

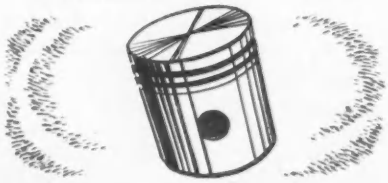
PISTON GRINDING MACHINES, See Machines, Piston Turning and Grinding

PISTON PINS, See Pins, Piston

PISTON RING COMPRESSOR, See Tools, Piston Ring Compressing

PISTONS

Al-Fin Div., Fairchild Engine & Airplane Corp., Farmingdale, L. I., N. Y. (Aluminum with bonded and cast iron carriers.)
Allied Motor Parts Co., Fox Theatre Bldg., Detroit, Mich.



Aluminum Co. of America, Gulf Bldg., Pittsburgh 19, Pa. "Lo-Ex."
Aluminum Industries, Inc., 2438 Beekman St., Cincinnati 25, Ohio. "Permite."
Arrow Head Steel Products Co., Lake City, Minn.
Badger Mfg. Co., 1707¼ Main St., Marinette, Wis. (Aluminum alloy.)
Balcrank, Inc., Disney St. near Marburg, Cleveland 9, Ohio.
Bohn Aluminum & Brass Corp., 1400 Lafayette Bldg., Detroit 26, Mich. "Nelson Bohnalite," "Bohnalite." (Sole distributors to replacement trade, Clawson & Bals, Inc., Holland, Mich.
Columbia Engineering Co., 505 W. Vine St., Columbia City, Ind.
Continental Motors Corp., Muskegon 82, Mich.
DeLuxe Products Corp., 1435 Lake St., La Porte, Ind. (Light weight cast iron.)
Elgin Machine Works, 412 N. State St., Elgin, Ill.
Ertel Machine Co., 2045 Martindale Ave., Indianapolis 7, Ind. (Aluminum and cast iron.)
Evco Products Co., 160 W. 62nd St., New York 23, N. Y.
Jahn's Quality Piston Co., 2652 Lacy St., Los Angeles, Calif.
King Quality Products Co., 2320 Marconi St., St. Louis 10, Mo. (Aluminum and gray iron.)
McQuay-Norris Mfg. Co., 2320 Marconi St., St. Louis, Mo.
Nylen Products Co., Lake Shore Drive, St. Joseph Mich. (Aluminum and gray iron.)
Ohio Piston Co., 5342 Hamilton Ave., Cleveland 14, Ohio.
San Diego Machine Co., 345 15th St., San Diego 12, Calif. "Realite."
Sealed Power Corp., 500 Sanford St., Muskegon, Mich.
Speedway Products Co., 1402 E. 20th St., Indianapolis 7, Ind. (Aluminum and cast iron.)
Sterling Aluminum Products, Inc., 2925 N. Market St., St. Louis 6, Mo.
Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio.
Toledo Steel Products Co., 3300 Summit St., Toledo 11, Ohio. "Diatrol," "Toledo First-Line."
Tsungani Piston Co., 625 E. 11th St., Tacoma, Wash.
United Engine & Machine Co., 310 Preda St., San Leandro, Calif. "Silv-O-Lite."
White Machine Works, 1401 Bellevue Ave., Eau Claire, Wis. "Superior."
Wisconsin Machinery & Mfg. Co., S. 60th St. & Beloit Rd., Milwaukee 14, Wis.
Zollner Machine Works, Fort Wayne, Ind. (Aluminum alloy.)

PISTON RINGS, See Rings, Piston

PISTON RING EXPANDERS, See Expanders, Piston Ring

PLATES, Clutch, Pressure

Accurate Parts Mfg. Co., 12435 Euclid Ave., Cleveland 6, Ohio.
Evco Products Co., 160 W. 62nd St., New York 23, N. Y.
Monmouth Products Co., 6545 Carnegie Ave., Cleveland 3, Ohio.
Perfection Gear Co., 152nd St. & Vincennes Ave., Harvey, Ill.

PLATES, Step

Ace Rubber Products, Inc., 100 Beech St., Akron, Ohio.
American Automatic Devices Co., Throop, Harrison & Congress Sts., Chicago, Ill. "King Bee."
Electric Auto-Lite Co., Die Casting Div., Woodstock, Ill.
Grammes & Sons, Inc., L. F., 371 Union St., Allentown, Pa.
Hamlin Metal Products Co., Exchange at Water Sts., Akron, Ohio.
Moore & Co., Samuel, Mantua, Ohio. "Rub-Rub."
Moss & Co., Henry, 113 53rd St., Brooklyn 32, N. Y. "Markwell."
Stafford Co., N., 53rd St. & First Ave., Brooklyn 32, N. Y.
Western Metal Specialty Co., 1213 N. 62nd St., Milwaukee 13, Wis.
Western Motors, 4834 Cermak Rd., Cicero, Ill.

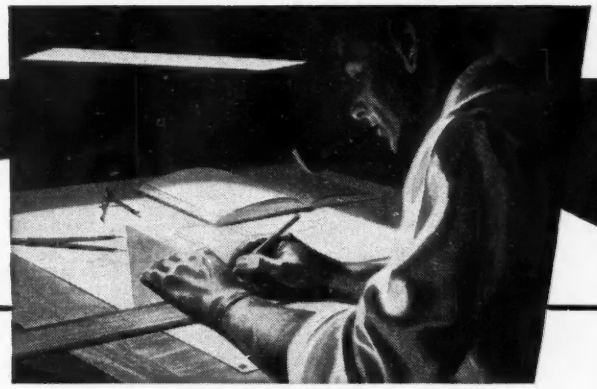
PLIERS, Brake Spring, See Tools, Brake Spring Removing and Replacing

PLIERS, TERMINAL, See Tools, Battery Service

PLYWOOD, See Panels, Plywood

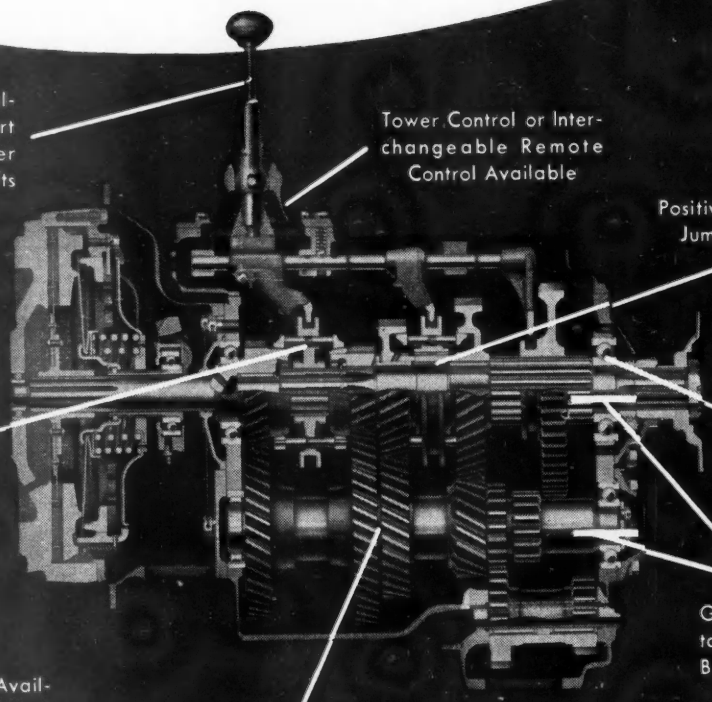
POINTS (Ignition)

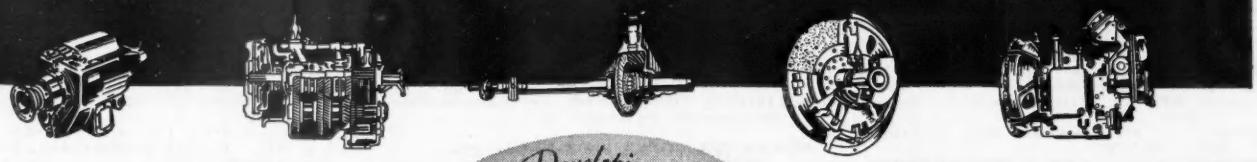
American Motor Products Co., Fond du Lac, Wis. "Ampco."
American Platinum Works, N.J.R.R. Ave. at Oliver St., Newark 5, N. J. "APW."
Automotive Specialty Corp., 1562 DeKalb Ave., Brooklyn 27, N. Y. "Tasco."
Cleveland Tungsten Mfg. Co., 10200 Meech Ave., Cleveland, Ohio. "Cleve-Tung."
Echlin Mfg. Co., 220 East St., New Haven, Conn.
F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill. "Filko."
Fansteel Metallurgical Corp., 2200 Sheridan Rd., North Chicago, Ill.
Freedco Products, Inc., 154 Nassau St., New York, N. Y.
Graphite Metallizing Corp., 1030 Nepperhan Ave., Yonkers 3, N. Y. "Graphalloy."
Guaranteed Parts Co., Seneca Falls, N. Y.
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.



Spicer

ENGINEERING gives you these Exclusive Features in the Spicer Synchronized Transmission—





SPICER ENGINEERING produces Transmissions, Passenger Car Axles, Clutches, Parish Frames, Torque Converters, Stampings, Forgings, Universal Joints, Propeller Shafts, Spicer "Brown-Lipe" Gear Boxes, Railway Generator Drives.

Designing, Developing, Engineering, Manufacturing and Service

25 YEARS OF Spicer SERVICE

SPICER MANUFACTURING
Division of Dana Corporation
TOLEDO 1, OHIO

1930-1

POINTS, Ignition—cont.

Kreger Mfg. Co., L. F., 540 W. 35th St., Chicago 16, Ill.
Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich. "Mapco."
Mallory & Co., P. R., 3029 E. Washington St., Indianapolis 6, Ind.
Manhattan Coil Corp., 1486 Lakewood Ave., S. E. Atlanta 1, Ga.
Monarch Insulated Wire Co., 491 Broadway, New York 12, N. Y.
National Ignition Mfg. Co., 521 W. 21st St., New York, N. Y. "Nimco."
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.
P & D Mfg. Co., 1902 Steinway St., Long Island City, L. I., N. Y.
Paragon Products Corp., 156 Astor St., Newark 5, N. J. "Vulcan." (Sole distributors, Vulcan Motor Products, Inc., 1060 Broad St., Newark 2, N. J.)
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
Shurhit Products, Inc., Waukegan, Ill.
Sorensen Mfg. Co., P., 32-31 57th St., Woodside, N. Y.
Speer Carbon Co., St. Marys, Pa.
Springfield Electrical Specialties, Inc., 12-126 Wooster St., New York 12, N. Y. "Superpoint."
Standard Motor Products, Inc., 3718 Northern Blvd., Long Island City, L. I., N. Y. "Blue Streak."
Stan-Test Corp., 4630 W. Harrison St., Chicago 44, Ill. "K-W."
Tungsten Contact Mfg. Co., 7311 Cottage Ave., North Bergen, N. J.
Valley Forge Products, Inc., 35-20 Skillman Ave., Long Island City 1, N. Y.
Wells Mfg. Corp., 200 W. Division St., Fond du Lac, Wis. "Super Go," "Wells."
Wilson Co., H. A., 105 Chestnut St., Newark 5, N. J. "Wilco."

POLISH, Body

Acme White Lead & Color Works, 8250 St. Aubin Ave., Detroit 11, Mich. "Proxlin."
Atomix, Inc., Wilmington 99, Del. "Atolak."
Automatic Electrical Devices Co., 2409 Colerain St., Cincinnati 14, Ohio. "Kemsol."
Ball Chemical Co., Empire Bldg., Pittsburgh 22, Pa. "Cleanola."
Baltimore Paint & Color Works, 148 S. Calverton Rd., Baltimore, Md. "Kartex," "Senior Certified."
Barton Products Co., 2765 St. Mary's Court, Chicago 47, Ill.
Bell Co., 411 N. Wolcott Ave., Chicago 22, Ill.
Belvidere Laboratories, 700 W. Locust St., Belvidere, Ill. "Metalglas."
Bowes "Seal Fast" Corp., 228 N. Pine St., Indianapolis 7, Ind.
Boyer Chemical Laboratories, 2232 S. Wabash Ave., Chicago, Ill. "3B."
Buffalo Plastic Finish Co., 152 Oak St., Buffalo, N. Y. "Plastic Gloss."
Campbell Paint & Varnish Co., Div. Glidden Co., 106 Gratiot St., St. Louis 2, Mo. "Glidden Quality."
Clinton Spray Wax Co., 1020 E. Land Pl., Milwaukee 2, Wis. (Wax.)
Colorglo Products, Inc., 109 N. Newlin Ave., Whittier, Calif.
Detroit Cover Co., 3410 W. Fort St., Detroit 16, Mich. "Rapid-Glow."
Do-Mor, Inc., 1121 Fourth Ave., Rockford, Ill.
Dupli-Color Products Co., 2440 S. Michigan Ave., Chicago 16, Ill.
du Pont de Nemours & Co., E. I., Chemical Specialties Div., Wilmington 98, Del. "Duco," "No. 7."
Durkee-Atwood Co., 215 Seventh St., N. E., Minneapolis 13, Minn.
Ensign Products Co., 3528 E. 76th St., Cleveland 5, Ohio.
Esso Standard Oil Co., 15 W. 51st St., New York 19, N. Y.
Fidelity Mfg. Co., Front & Bridge Sts., Catasauqua, Pa. "Alrite," "Fidelity."
Floz-on Mfg. Co., Box 8566, Pittsburgh 20, Pa. (Crystalline wax.)
Formax Mfg. Co., 3171 Bellevue St., Detroit 7, Mich.
Glidden Co., 11001 Madison Ave., Cleveland, Ohio. "Glid-N."
Goodrich Co., B. F., 500 S. Main St., Akron, Ohio.
Hollingshead Corp., R. M., 840 Cooper St., Camden, N. J. "Whiz Venus."
Inland Rubber Corp., 146 W. 27th St., Chicago 16, Ill.
International Metal Polish Co., 1910 Quill St., Indianapolis, Ind. "Blue Ribbon."
Johnson & Son, Inc., S. C., Racine, Wis.
Jones Products, Inc., 276 Third St., Cambridge 42, Mass. "Albionite," "Car-Glo."
Ken-Nite Co., 2926 Hancock Ave., W., Detroit 8, Mich. "Ken-Nite," "Ken-Glo."
Lacquerwax Co., 31 Spruce St., Hartford 3, Conn. (Wax.)
Liquid Veneer Corp., Urban & Kehr St., Buffalo 11, N. Y.
Lusk Co., C. F., 5918 Bonna Ave., Cleveland, Ohio. "Lazy Man's," "Lustro."
McAleer Mfg. Co., Box 149, Rochester, Mich.
Mac's Super Gloss Co., 6040 N. Figueroa St., Los Angeles 42, Calif.
Mirror Bright Polish Co., 910 E. Colorado St., Pasadena, Calif. "Meguiar's."
Mirrorlike Mfg. Co., 16th St. & Queens Blvd., Long Island City 1, N. Y. "DeLux."
Park Chemical Co., Military & Vancouver Aves., Detroit 4, Mich. "Parko."
Permatex Co., 1720 Ave. Y, Brooklyn 29, N. Y.
Plasticlear Products, Inc., 29 Mills St., Malden, Mass.
Plastic-Kote, Inc., 425 Lakeside Ave., N. W., Cleveland 13, Ohio.
Rawhide Products Co., Michigan Ave., Kenilworth, N. J. "Miracle."
Sherwin-Williams Co., 101 Prospect Ave., N. W., Cleveland 1, Ohio. "Open.."
Silver-Glo Co., 185 S. Main St., Seymour, Conn.
Simoniz Co., 2101 Indiana Ave., Chicago 16, Ill. "Simoniz," "Simoniz Kleener."
Sinclair Refining Co., 630 Fifth Ave., New York, N. Y.
Socony-Vacuum Oil Co., 26 Broadway, New York 4, N. Y. "Mobilgloss."
Speco, Inc., 7308 Associate Ave., Cleveland 9, Ohio. "Karglo."
Stain-Ox Co., 625 E. First Ave., Roselle, N. J.
Stanley Co., John T., 642 W. 30th St., New York 1, N. Y. "Mobo."
Steelcote Mfg. Co., 3418 Gratiot Ave., St. Louis 3, Mo.
Sure-Rite Products Corp., 2731 N. Sixth St., Philadelphia 33, Pa.
Swavely Chemical & Varnish Works, 831 Page St., Flint 5, Mich. "Smooth Glaze."
Tumbler Laboratories, J. A., 423 S. Hanover St., Baltimore 1, Md.
Turco Products, Inc., 6125 S. Central Ave., Los Angeles 1, Calif. "Turco Min-Mum," "Turco Revel."
V-O Mfg. Co., 13245 Sherman Way, North Hollywood, Calif.
Watts-Wagner Co., 113 Frelinghuysen Ave., Newark 5, N. J. "Color-Blend," "Por-Cel-Seal."
Wilco Co., 4425 Bandini Blvd., Los Angeles 23, Calif.

POLISHERS, Portable Electric

Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa. "Sioux."
Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.
Bradford Machine Tool Co., 657 Evans St., Cincinnati 4, Ohio.
Clarke Sanding Machine Co., 30 E. Clay Ave., Muskegon, Mich.
Independent Pneumatic Tool Co., 175 State St., Aurora, Ill. "Thor."
Jones Motrola Corp., 432 Fairfield Ave., Stamford, Conn.
Millers Falls Co., Greenfield, Mass.
Milwaukee Electric Tool Co., 5316 W. State St., Milwaukee 8, Wis.
Nedco Co., 87 Rumford Ave., Waltham, Mass.
Portable Elec. Tools, Inc., 255 W. 79th St., Chicago 20, Ill.
Skilsaw, Inc., 5033 Elston Ave., Chicago 30, Ill. "Skil Polishers."
United States Electrical Tool Co., 1050 Findlay St., Cincinnati 14, Ohio.
Van Dorn Electric Tools, Towson 4, Md.

POLISHERS, Portable Pneumatic

Aro Equipment Corp., Bryan, Ohio.
Independent Pneumatic Tool Co., 175 State St., Aurora, Ill. "Thor."
Keller Tool Co., 1333 Fulton St., Grand Haven, Mich.
Rotor Tool Co., 17325 Euclid Ave., Cleveland 12, Ohio.

POLISHING COMPOUNDS, See Compounds, Rubbing and Polishing

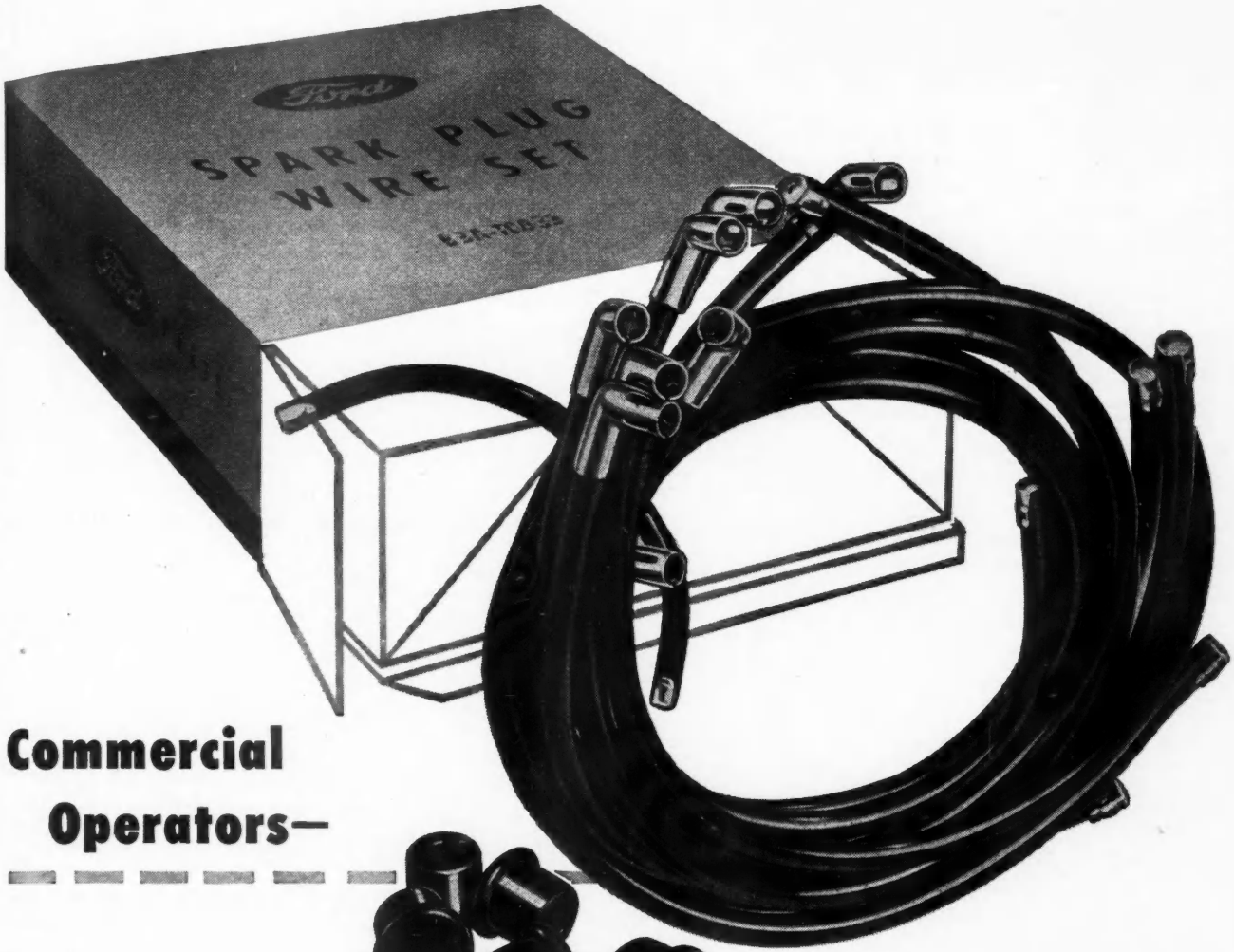
POWER TAKE-OFFS, See Take-Offs, Power

PRESSES, Arbor

Acorn Mfg. Co., 33rd & Reed Sts., Erie, Pa. "Amco."
Acromark Co., 9 Morrell St., Elizabeth 4, N. J.
Bee-Line Co., Box 569, Davenport, Iowa.
Bellows Co., 222 W. Market St., Akron 9, Ohio. (Pneumatic.)
Champion Blower & Forge Co., Harrisburg Ave. & Charlotte St., Lancaster, Pa.
Dake Engine Co., 639 Monroe St., Grand Haven, Mich.
Evans Reamer & Machine Co., 5490 Dunham Rd., Maple Heights, Ohio. (Electric and hydraulic.)
Famco Machine Co., 1320 18th St., Racine, Wis.
Ford Chain Block Div. of American Chain & Cable Co., Second & Diamond Sts., Philadelphia 22, Pa.
French Oil Mill Machinery Co., Piqua, Ohio.
General Mfg. Co., 6432 Farnsworth Ave., Detroit 11, Mich.
Greenerd Arbor Press Co., 41 Crown St., Nashua, N. H. (Hand and hydraulic.)
Hannifin Mfg. Co., 1101 S. Kilbourn Ave., Chicago 24, Ill. (Pneumatic.)
Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio. (Electric and hydraulic.)
Logansport Machine Co., Center Ave., Logansport, Ind. "Logan." (Pneumatic and hydraulic.)
Manley Mfg. Div., American Chain & Cable Co., E. Princess & Charles Sts., York, Pa.
Ruger Equipment Co., 2425 St. Clair Ave., Cleveland 14, Ohio; P. O. Box 3821, Portland 8, Ore. (Hydraulic.)
Sheldon Machine Co., 4240 N. Knox Ave., Chicago 41, Ill.
Threadwell Tap & Die Co., Greenfield, Mass. "Little Champ."
Tomkins-Johnson Co., 617 N. Mechanic St., Jackson, Mich. "T-J."
Tripp, F. A., 409 E. Fort St., Detroit 26, Mich.
Watson-Stillman Co., Roselle, N. J. (Hydraulic.)
Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K.R.W."

PRESSES, Hydraulic

Air Hydraulics, Inc., 120 W. Middle St., Chelsea, Mich.
American Broach & Machine Co. (Div. of Sundstrand Machine Tool Co.), 415 W. Huron St., Ann Arbor, Mich.
Anderson Bros. Mfg. Co., 1907 Kiswaukee St., Rockford, Ill.
Baldwin Locomotive Works, Philadelphia 42, Pa. "Southwark."
Bethlehem Steel Co., Bethlehem, Pa.
Birdsboro Steel Foundry & Machine Co., Birdsboro, Pa.
Blackhawk Mfg. Co., 5325 W. Rogers St., Milwaukee 1, Wis.
Bliss Co., E. W., 1420 Hastings St., Toledo 7, Ohio.
Clearing Machine Corp., 6499 W. 65th St., Chicago 38, Ill.
Dake Engine Co., 630 Monroe St., Grand Haven, Mich. (Electrically, air and hand operated.)
Denison Engineering Co., 1160 Dublin Rd., Columbus, Ohio.
Erie Foundry Co., 1253 W. 12th St., Erie, Pa.
Farquhar Co., A. B., 142 N. Duke St., York, Pa.
Farrel-Birmingham Co., 97 Main St., Ansonia, Conn.
Federal Machine & Welder Co., Warco Press Div., 1964 Griswold St., Warren, Ohio. "Warco."
Ford Chain Block Div. of American Chain & Cable Co., Second & Diamond Sts., Philadelphia 22, Pa.
French Oil Mill Machinery Co., Piqua, Ohio.
Greenerd Arbor Press Co., 41 Crown St., Nashua, N. H.
Hannifin Mfg. Co., 1101 S. Kilbourn Ave., Chicago 24, Ill.
Hydraulic Machinery, Inc., 1901 Dime Bank Bldg., Detroit 26, Mich.
Hydraulic Press Mfg. Co., Mount Gilead, Ohio. "H-P-M."
Hydropress, Inc., 570 Lexington Ave., New York 22, N. Y.
Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
Lake Erie Engineering Corp., 890 Woodward Ave., Buffalo 17, N. Y.
Lapointe Machine Tool Co., 34 Tower St., Hudson, Mass. "Lapointe Hudson."
Manley Mfg. Div., American Chain & Cable Co., E. Princess & Charles Sts., York, Pa.
Mesta Machine Co., Box 1466, Pittsburgh, Pa.
Morgan Engineering Co., Alliance, Ohio.
Munton Mfg. Co., 9400 Belmont Ave., Franklin Park, Ill.
Oilgear Co., 1303a W. Bruce St., Milwaukee 4, Wis.
Tripp, F. A., 409 E. Fort St., Detroit 26, Mich.
Verson Allsteel Press Co., 93rd St. & Kenwood Ave., Chicago, Ill.
Watson-Stillman Co., Roselle, N. J.
Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill.
West Tire Setter Co., 399 Exchange St., Rochester 8, N. Y.
Williams, White & Co., Third Ave. & Eighth St., Moline, Ill.
Wilson, K. R., 216 Main St., Buffalo 3, N. Y. "K.R.W."



Commercial Operators—

Save with Genuine FORD Parts

You'll save time and money by always using Genuine Ford Parts for replacements in your Ford Cars and Trucks. That's because Ford Parts are made right to fit right and last longer . . . made to factory specifications, factory quality standards. Here's just one example . . .

GENUINE FORD SPARK PLUG WIRE SET

Factory designed and engineered for the Ford V-8 and Six engines, Genuine Ford Spark Plug Wire Sets contain all necessary parts for ignition wiring replacement. Convenient unit package prevents loss of kit items. Insulation is heat and oil resistant, combines natural rubber, of high dialectric strength, with top grade combed peeler yarn braid. Nineteen strands of tin-coated No. 29 copper wire make up the complete cable. The pure tin coating is a corrosion preventative.

Order from your nearest Ford Dealer today.

GENUINE Ford PARTS

Genuine FORD Parts...

Right for FORDS!

FORD MOTOR COMPANY

3820-1

PRESSES, Hydraulic—cont.

Winona Tool Mfg. Co., 1430 W. Broadway, Winona, Minn. "Wi-To-Co."
Wood Co., R. D., Room 1072, Public Ledger Bldg., Philadelphia 5, Pa.
Wright Hoist Div. of American Chain & Cable Co., York, Pa.

PRESSES, Straightening (Wheel)

Bear Mfg. Co., 21st St. & Fifth Ave., Rock Island, Ill.
Bee-Line Co., Box 569, Davenport, Iowa.
Schildmeier Co., H. C., 312 N. Senate Ave., Indianapolis 2, Ind. "Seal Line."
Tripp, F. A., 409 E. Fort St., Detroit 26, Mich.

PRUSSIAN BLUE, See Blue Mechanics

PULLERS, Cylinder Head

Cornwell Quality Tools Co., Mogadore, Ohio.
Kennedy Service Tools Co., P. O. Box 33, Mogadore, Ohio.
Rinck-McIlwaine, Inc., 16 Hudson St., New York 13, N. Y. "Rimac."
Zoerman-Clark Mfg. Co., Jackson, Mich. (For Ford cars.)

PULLERS, Cylinder Sleeve

Atmars Tool Co., 2411 Chestnut St., Oakland, Calif.
Chicago Pneumatic Tool Co., 6 E. 44th St., New York, N. Y. (Portable pneumatic.)
Hastings Mfg. Co., 375 E. Mill St., Hastings, Mich.
Hein Werner Corp., 1200 National Ave., Waukesha, Wis. (Hydraulic.)
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.

PULLERS, Bearing, Gear and Wheel

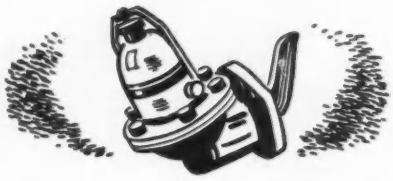
Acorn Mfg. Co., 33rd & Reed Sts., Erie, Pa. "Amco."
Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamagoo 13F, Mich.
All-Power Mfg. Co., 202 Roosevelt Ave., Montelullo, Calif.
Armstrong-Bray & Co., 5320 Northwest Highway, Chicago, Ill. "Steelgrip."
Atmars Tool Co., 2411 Chestnut St., Oakland 7, Calif. "Lok Jaw."
Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo. (Wheel.)
Bear Mfg. Co., 21st St. & Fifth Ave., Rock Island, Ill. (Wheel.)
Blackhawk Mfg. Co., 5325 W. Rogers St., Milwaukee 1, Wis. "Porto-Power." (Hydraulic.)
Bonney Forge & Tool Works, Tilghman & Meadow Sts., Allentown, Pa.
C. & G. Wheel Puller Co., Scio, N. Y.
Calvan Machine Products, Inc., 809 S. Water St., Jackson, Mich. (Also timing gear.)
Cam Tool Co., 288 21st St., Oakland, Calif.
Cornwell Quality Tools Co., Mogadore, Ohio.
Crane Puller Co., 11 River St., West Newton, Mass.
Curtiss & Smith Mfg. Corp., 22 High St., Pottstown, Pa. "C. S."
Dalton Foundries, Inc., Warsaw, Ind. "Big Boy."
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill. "Duro-Chrome."
Greb Co., 181 Canton St., Stoughton, Mass.
Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio. "Herbrand," "Van Chrome."
Hunt Mfg. Co., Geo. L., 1030 Wisconsin Ave., Boscobel, Wis.
Indestro Mfg. Co., 2649 N. Kildare Ave., Chicago, Ill.
K-D Mfg. Co., 526 N. Plum St., Lancaster, Pa. (Wheel.)
Ken-Tool Mfg. Co., 768 E. North St., Akron 6, Ohio.
Kennedy Service Tools Co., P. O. Box 33, Mogadore, Ohio.
Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
Majestic Handle Co., 2515 S. Wabash Ave., Chicago, Ill. (Sole distributors, Leterstone Sales Co., 2515 S. Wabash Ave., Chicago, Ill.)
Martindale Electric Co., 1340 Hird Ave., Cleveland 7, Ohio.
Miller Mfg. Co., 5919 Tireman Ave., Detroit 4, Mich.
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
New Britain Machine Co., 140 Chestnut St., New Britain, Conn.
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn., "OTC."
Plomb Tool Co., 2209 Santa Fe Ave., Los Angeles 54, Cal. "Proto."
Powercraft Corp., 2502 S. Wabash Ave., Chicago, Ill. "Powerflo." (Sole distributors, Leterstone Sales Co., 2515 S. Wabash Ave., Chicago, Ill.)
Raybestos Div. of Raybestos-Manhattan, Inc., Stratford Conn. (Wheel.)
Rinck McIlwaine, Inc., 16 Hudson St., New York 13, N. Y.
Rovtar Tool-Die Mfg. Co., 2230 S. Wood St., Chicago 8, Ill. (Wheel.)
Simmons Mfg. Co., Ashland, Ohio.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.
Springfield Wheel Puller Co., 510 Hubert Ave., Springfield, Ohio. "Springfield," "Mayo."
Templeton, Kenly & Co., 1020 S. Central Ave., Chicago 44, Ill. "Simplex-Jenny." (Hydraulic.)
Truth Tool Co., 711 S. Front St., Mankato, Minn.
Vichek Tool Co., 3000 E. 87th St., Cleveland, Ohio.
Weidenhoff, Inc., Joseph, 4340 W. Roosevelt Rd., Chicago 24, Ill.
Williams & Co., J. H., 400 Vulcan St., Buffalo 7, N. Y.
Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K.R.W." (For Ford cars.)
Wright Tool & Forge Co., 42 E. State St., Barberton, Ohio. (Wheel.)
Zim Mfg. Co., 3007 Carroll Ave., Chicago, Ill.
Zoerman-Clark Mfg. Co., Jackson, Mich.

PUMPS, Brake (Vacuum)

Bendix Products Div., Bendix Aviation Corp., 401 Bendix Drive, South Bend 20, Ind.
Hetzel Bros., 1972 S. Los Angeles St., Los Angeles, Calif.
Kelsey-Hayes Wheel Co., 3600 Military Ave., Detroit 32, Mich. "Lathan."

PUMPS, Fuel

AC Spark Plug Div., General Motors Corp., 1300 N. Dort Highway, Flint 2, Mich. (Electric; mechanical, also combustion fuel feed and vacuum.)



Airtex Automotive Div., Chefford-Master Mfg. Co., Fairfield, Ill. (Also combination fuel and vacuum.)
Alloy Mfg. Co., 3207 S. Shields Ave., Chicago 16, Ill. "Quality Built."
Autopulse Corp., 218 E. Dowland St., Ludington, Mich. (Electric.)
Blackstone Mfg. Co., 4630 W. Harrison St., Chicago 44, Ill. "BMC."
Carter Carburetor Corp., 2840 N. Spring Ave., St. Louis 7, Mo. (Electric and mechanical.)
Chefford Master Mfg. Co., Fairfield, Ill.
Freedco Products, Inc., 154 Nassau St., New York, N. Y.
Hygrade Products Div., Standard Motor Products, Inc., 33-35 35th St., Long Island City 1, N. Y.
Jacobs Co., F. L., 1043 Spruce St., Detroit 1, Mich.
Jones-Motrola Corp., 432 Fairfield Ave., Stamford, Conn. "Jones." (Mechanical.)
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.
Murray Auto Specialty Co., Airprene Div., 1228 S. Olive St., Los Angeles 15, Calif.
Stewart-Warner Corp., 1826 Diversey Parkway, Chicago 14, Ill. (Electric and vacuum.)

PUMPS, Gasoline (Filling Station)

American Pumps, Inc., 1035 Woodrow St., Cincinnati 4, Ohio. "American Beauty."
Bowser, Inc., 1302 E. Creighton Ave., Fort Wayne, Ind.
Correct Mfg. Co., Box 190, Rochester, Pa. "Correct-O-Meter."
Dayton Pump & Mfg. Co., 500 N. Webster St., Dayton, Ohio.
Erie Meter Systems, Inc., Pearl St. & Wagner Ave., Erie, Pa.
Gilbert & Barker Mfg. Co., West Springfield, Mass. "Calco-Meter," "Gilbarco."
National Store Specialty Co., Bareville, Pa. "Pennsylvania."
Phillips Pump & Tank Div., Steel Materials Corp., 5000 Brotherton Rd., Cincinnati 9, Ohio.
Service Station Equipment Co., Muskegon, Mich.
Southwest Pump Co., First & Center Sts., Bonham, Tex.
Tokheim Oil Tank & Pump Co., 1602 Wabash Ave., Fort Wayne, Ind.
Wayne Pump Co., Tecumseh & Cochran Sts., Ft. Wayne 4, Ind.
Wood Mfg. Co., John, Muskegon, Mich. "Bennett." (Selling company, Service Station Equipment Co., Muskegon, Mich.)

PUMPS, Hydraulic

Vickers, Inc., 1418 Oakman Blvd., Detroit 22, Mich.

PUMPS, Water

Allied Motor Parts Co., Fox Theatre Bldg., Detroit, Mich.
Aluminum Industries, Inc., 2438 Beekman St., Cincinnati 25, Ohio. "Permite."
Atlas Brass Foundry Co., 32 W. Deshler Ave., Columbus, Ohio. "Abco." "Everseal."
Automotive Mfg. Co., 570 W. Fulton St., Chicago 22, Ill. "Amko."
Automotive Replacements, Inc., 55 E. 26th St., Chicago 16, Ill. "Exact."
Balcrank, Inc., Disney St. nr. Marburg, Cincinnati 9, Ohio.
Bohn Aluminum & Brass Corp., 1400 Lafayette Bldg., Detroit 6, Mich.
Browne & Sharp Mfg. Co., 235 Promenade St., Providence, R. I.
Chefford Master Mfg. Co., Fairfield, Ill. "Master."
Clawson & Bals, Inc., Holland, Mich. "Ring True."
Elgin Machine Works, 412 N. State St., Elgin, Ill. (For Ford, Chevrolet and Plymouth cars.)
Grapho Products, Inc., P. O. Box 300, Lawrence, Ind.
Jambor Tool & Stamping Co., 3057 N. 30th St., Milwaukee 10, Wis. "Bull Dog." (For Ford, Chevrolet and Plymouth cars.)
King Quality Products Co., 2320 Marconi St., St. Louis 10, Mo.
Linmar Products Co., 1630 S. Keeler Ave., Chicago 23, Ill.
Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill.
Parts Mfg. Co., 311 W. 66th St., New York 23, N. Y. "Parco."
Pick Mfg. Co., West Bend, Wis.
Schwitzer-Cummins Co., 1125 Massachusetts Ave., Indianapolis 7, Ind. "Hy Duty."
Sealed Power Corp., 500 Sanford St., Muskegon, Mich.
Speedway Products Co., 1402 E. 20th St., Indianapolis 7, Ind.
Thompson Products, Inc., 23555 Euclid Ave. Cleveland 17, Ohio.
Toledo Steel Products Co., 3300 Summit St. Toledo 11, Ohio. "Toledo Perma-Seal."
Warner Machine Products, Inc., 1200 Rochester St., Muncie, Ind. "WMP."
Wohlert Corp., 700 E. Grand River Ave., Lansing 6, Mich.

RACKS, Stock, Tire and Tool (Metal)

Angle Steel Stool Co., 56 Oak St., Plainwell, Mich.
Aurora Equipment Co., Prairie St. at Cleveland Ave., Aurora, Ill.
Balloon Tire Mould Co., 527 Ceres Ave., Los Angeles 13, Calif. "Brown." (Tire.)
Berger Mfg. Div., Republic Steel Corp., 1038 Belden Ave., N. E., Canton 5, Ohio.
Brown Engineering Co., 126 N. Third St., Reading, Pa. (Bar stock.)
De Luxe Metal Furniture Co., Struthers St., Warren, Pa.
Durlach Can & Iron Works, 174 Seventh St., Brooklyn 15, N. Y.
Economy Engineering Co., 4511 W. Lake St., Chicago 24, Ill. (Barrel.)
Factory Service Co., 4615 N. 21st St., Milwaukee 9, Wis. "Turner System."
Frick-Gallagher Mfg. Co., 200 W. Second St., Wellston, Ohio. "FGM."
Heller & Co., W. C., 1907 Wabash Ave., Montpelier, Ohio.
Heller Castor Co., 1219 W. Fort St., Detroit 26, Mich.
International Engineering Works, Inc., Manufacturing Equipment & Engineerig Co. Div., 553 Waverly St., Framigham, Mass. "Meeco."
Lee Engineering Co., 505 Central Ave., Pawtucket, R. I. "Lee Rollrax." (Portable, tire.)
Lewis-Shepard Products, Inc., 155 Walnut St., Watertown Sta., Boston, Mass. "Load Master."
Logan Co., 201 N. Buchanan St., Louisville 6, Ky.
Lyon Metal Products, Inc., 2931 Montgomery St., Aurora, Ill.
Mechanical Handling Systems, Inc., 4600 Nancy Ave., Detroit 12, Mich. "MHS."
Metal Industries, Inc., P. O. Box 945, Youngstown, Ohio. "Jambar."
New Britain Machine Co., 140 Chestnut St., New Britain. Conn. (Bar stock.)
Penn Metal Corp. of Penna., Oregon Ave. & Swanson St., Philadelphia 48, Pa. "Penco."
Revolator Co., U. S. Route 1 at 86th St., North Bergen, N. J. (Barrel and drum.)
Wilson, K. R., 215 Main St., Buffalo 3, N. Y.

DeVilbiss Complete Paint Shops...

Handle 3 to 5 trucks daily

Whatever your truck painting requirements, DeVilbiss can supply a Complete Paint Shop to handle the job better, faster at low cost. All of them are scientifically lighted and ventilated for maximum efficiency. They are equipped with the same highly perfected spray guns that are used on truck manufacturers' production lines. And specialized equipment for the very important jobs of touchup, underbody coating and stenciling is also included.

Every day more fleet operators are turning to DeVilbiss for complete paint shop modernization. DeVilbiss is headquarters for this modern equipment that gets painting done and trucks out on the road without delay.

THE DeVILBISS COMPANY • Toledo 1, Ohio

Canadian Plant: WINDSOR, ONTARIO

DE VILBISS

means **Quality** *in all four..*

SPRAY EQUIPMENT
EXHAUST SYSTEMS
AIR COMPRESSORS
HOSE & CONNECTIONS

2231-1

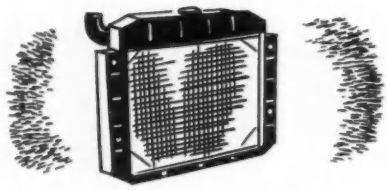
RADIATOR COVERS, See Covers, Radiator Grille

RADIATOR GRILLES, See Grilles, Radiator

RADIATOR SHUTTERS, See Shutters, Radiator

RADIATORS, Engine Cooling

Auto Radiator Mfg Co., 2901 Indiana Ave., Chicago, Ill. "Eureka."
Blackstone Corp., 1088 Allen St., Jamestown, N. Y.
Chicago Mfg. Co., 411 N. Trumbull Ave., Chicago, Ill.
Excel Auto Radiator Co., 320 E. 21st St., Chicago 16, Ill. "Excel," "Marvel."
Fedders-Quigan Corp. Co., 57 Tonawanda St., Buffalo 7, N. Y.
G & O Mfg. Co., 138 Winchester Ave., New Haven, Conn.
Harrison Radiator Div., General Motors Corp., Washburn & Walnut Sts., Lockport, N. Y.
Kramer Auto Radiator Corp., 210 W. 65th St., New York 23, N. Y.
Long Mfg. Div. Borg-Warner Corp., 12501 Duquindre St., Detroit, Mich.
McCord Corp., 2587 E. Grand Blvd., Detroit 11, Mich.



Modine Mfg. Co., 1500 De Koven Ave., Racine, Wis.
Perfex Corp., 500 W. Oklahoma Ave., Milwaukee 7, Wis.
Yates-American Machine Co., Beloit, Wis.
Young Radiator Co., 709 S. Marquette St., Racine, Wis.

RADIOS, Two-Way

Motorola, Inc., 4545 W. Augusta Blvd., Chicago 51, Ill.
Philco Corp., Industrial Radio Div., Tioga & C Sts., Philadelphia, Pa.
Radio Corp. of America, RCA Victor Div., Tube Dept., 411 S. Fifth St., Harrison, N. J. "RCA."
Raytheon Mfg. Co., 60 E. 42nd St., New York 17, N. Y.

RADIOS, Vehicle (Receivers)

Automatic Radio Mfg. Co., 122 Brookline Ave., Boston, Mass.
Delco Radio Div., General Motors Corp., Kokomo, Ind.
DeWald Radio Mfg. Corp., 35-15 37th Ave., Long Island City, N. Y.
General Electric Co., Specialty Div., Wolf St. Plant, Syracuse, N. Y. "G-E."
Motorola, Inc., 4545 W. Augusta Blvd., Chicago 51, Ill.
Philco Corp., Industrial Radio Div., Tioga & C Sts., Philadelphia 34, Pa.
Zenith Radio Corp., 6001 Dickens Ave., Chicago 39, Ill. (Custom built.)

RAILS, Rub (Pressed Steel)

Bath Co., Cyril, Metal Form Div., E. 70th St. & Machinery Ave., Cleveland 3, Ohio.
Cutler Metal Products Co., 1029 Line St., Camden, N. J.
Hart Pressed Steel Corp., 3306 Hammond Ave., Elkhart, Ind.
Kirk & Blum Mfg. Co., 2819 Spring Grove Ave., Cincinnati, Ohio.
Parish Pressed Steel Co., Robeson & Weiser Sts., Reading, Pa.

RAMS, Hydraulic

American Hydraulics Inc., 1822 Wildwood Ave., Sheboygan, Wis.
Auto Specialties Mfg. Co., 557 Graves St., St. Joseph, Mich. "Ausco."
Bee-Line Co., P. O. Box 569, Davenport, Iowa.
Blackhawk Mfg. Co., 5325 W. Rogers St., Milwaukee 1, Wis.
Blackhawk Mfg. Co., 5325 W. Rogers St., Milwaukee 1, Wis. "Porto-Power."
G.A.C. Mfg. Co., 110 E. Fourth St., Ashland, Ohio. "Perfection Power Plus."
Hein-Werner Corp., 1200 National Ave., Waukesha, Wis. "Power Plus."
Livingston Mfg. Co., 8438 Otis St., South Gate, Cal.
Munton Mfg. Co., 9400 Belmont Ave., Franklin Park, Ill. (Hydraulic remote control.)
Porter, Inc., H. K., 74 Foley St., Somerville 43, Mass. "Porter-Ferguson."
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. "Hydra-Pak," "Snap-On."
Stephenson Foundry & Mfg. Co., J. O., 548 E. Fort St., Detroit 6, Mich. "Step-Draulic."
Sunset Hydraulic Co., 16825 S. Broadway, Gardeau, Calif. "Amazon," "Amazon Hydra-Pull," "Hydra-Pull Mite."

REAMERS, Cylinder Ridge

Advertising Distributors, Inc., 5046 Shaw Ave., St. Louis 10, Mo. "A.D.I."
All-Power Mfg. Co., 202 Roosevelt Ave., Montebello, Calif
Ammco Tools, Inc., 2100 Commonwealth Ave., North Chicago, Ill.
Beard Tool Co., L. O., Andrew & Mill Sts., Lancaster, Pa.
Calvan Machine Products, Inc., 809 S. Water St., Jackson, Mich.
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
Evans Reamer & Machine Co., 5490 Dunham Rd., Maple Heights, Ohio.
Hastings Mfg. Co., 375 E. Mill St., Hastings, Mich.
Keystone Reamer & Tool Co., Millersburg, Pa.
Lisle Corp., 809 E. Main St., Clarinda, Iowa.
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
New Britain Machine Co., 140 Chestnut St., New Britain, Conn.
Peterson Co., Paul, 1313 W. Randolph St., Chicago 7, Ill. "Webco."
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. "Blue Point."
Waterbury Tool, Div. of Vickers, Inc., 188 E. Aurora St., Waterbury 91, Conn. "Waterbury Hall."
Zim Mfg. Co., 3037 Carroll Ave., Chicago, Ill.

REAMERS, Main Bearing and Connecting Rod

Keystone Reamer & Tool Co., Millersburg, Pa.
Morse Twist Drill & Machine Co., 163 Pleasant St., New Bedford, Mass.
Taft-Peirce Mfg. Co., 32 Mechanic Ave., Woonsocket, R. I.
Watervliet Tool Co., 1349 Broadway, Albany 1, N. Y.
Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K.R.W."

REAMERS, Power Drive

Evans Reamer & Machine Co., 5490 Dunham Rd., Maple Heights, Ohio.
Greaves Machine Tool Co., Eastern Ave. & Hazen St., Cincinnati, Ohio.
Lee Co., K. O., Congress at First Ave., S. E., Aberdeen, S. D. "Knock Out."
Lempco Products, Inc, 5490 Dunham Rd., Bedford, Ohio.
United States Electrical Tool Co., 1050 Findlay St., Cincinnati 14, Ohio. "U. S."
Van Norman Co., 3640 Main St., Springfield 7, Mass. "Reamo."

REAMERS (Solid Expansion and Adjustable)

Alvord-Polk Tool Co., 110 Gearhart St., Millersburg, Pa. "Alpo."
Arrow Tool & Reamer Co., 418 Livernois Ave., Detroit 9, Mich. (Solid.)
Barber-Colman Co., 265 Loomis St., Rockford, Ill. (Solid and adjustable.)
Beard Tool Co., L. O., Andrew & Mill Sts., Lancaster, Pa.
Calvan Machine Products, Inc., 809 S. Water St., Jackson, Mich.
Chadwick & Trefethen, 32 Bow St., Portsmouth, N. H. "Critchley," "C & T."
Chicago-Latrobe Twist Drill Works, Div. of United Drill & Tool Corp., 411 W. Ontario St., Chicago 10, Ill. (Expansion.)
Clark Equipment Co., Buchanan, Mich. "Celfor."
Cleveland Twist Drill Co., 1242 E. 49th St., Cleveland 14, Ohio. "Paradox," "Quick-Set," "Peerless," "Spirex."
Cogsdill Twist Drill Co., 12950 W. Eight Mile Rd., Detroit 21, Mich.
Davis Boring Tool Div. of Larkin Giddings & Lewis Machine Tool Co., 142 Doty St., Fond du Lac, Wis.
Detroit Reamer & Tool Co., 2830 E. Seven Mile Road, Detroit 12, Mich. "D.R.&T." (Solid.)
Evans Reamer & Machine Co., 5490 Dunham Rd., Maple Heights, Ohio. (Expansion.)
Goddard & Goddard Co., 12280 Burt Rd., Detroit 23, Mich.
Greenfield Tap & Die Corp., Sanderson St., Greenfield, Mass. "G T D." (Solid and expansion.)
Hill Nut Co., 2620 W. Flourney St., Chicago 12, Ill.
Hjorth Lathe & Tool Co., 12 Beacon St., Woburn, Mass. "B-Ver." (Expansion and adjustable.)
Kelly Reamer Co., 3775 Ridge Rd., Cleveland, Ohio. (Adjustable.)
Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
Keystone Reamer & Tool Co., Millersburg, Pa.
McCrosky Tool Corp., S. Main St., Meadville, Pa. "Super." (Adjustable.)
Madison Mfg. Co., Spring St. & Bauer Ave., Muskegon, Mich. (Adjustable.)
Martindale Electric Co., 1340 Hird Ave., Cleveland 7, Ohio.
Morse Twist Drill & Machine Co., 163 Pleasant St., New Bedford, Mass.
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
National Twist Drill & Tool Co., Rochester, Mich. (Solid.)
New Britain Machine Co., 140 Chestnut St., New Britain, Conn.
O. K. Tool Co., 33 Hull St., Shelton, Conn. (Adjustable.)
Park Metalware Co., Thorn Ave. & B. R. & P. Tracks, Orchard Park, N. Y. "Xcelite."
Peterson Co., Paul, 1313 W. Randolph St., Chicago 7, Ill. "Webco."
Pratt & Whitney Div. Niles-Bement-Pond Co., Charter Oak Blvd., West Hartford 1, Conn.
Production Tool Co. of America, 6474 Le Grand Ave., Detroit 11, Mich.
Reasor Mfg. Co., 13th & Indiana Ave., St. Charles, Ill. (Expansion.)
Reiff & Nestor Co., Lykens, Pa.
Reltool Corp., 712 W. Michigan St., Milwaukee 3, Wis.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. "Blue Point."
Standard Tool Co., 6900 Central Ave., Cleveland 4, Ohio. "Shield Brand."
Staples Tool Co., 2851 Massachusetts Ave., Cincinnati 25, Ohio. (Carboloy tipped, solid and expansion.)
Taft-Peirce Mfg. Co., 32 Mechanic Ave., Woonsocket, R. I.
Union Twist Drill Co., Monroe St., Athol, Mass.
Union Twist Drill Co., Butterfield Div., Derby Line, Vt. (Solid and expansion.)
Vermont Tap & Die Corp., Main & Grove Sts., Lyndonville, Vt. (Solid.)
Watervliet Tool Co., 1349 Broadway, Albany 1, N. Y.
Waukesha Tool Corp., Waukesha, Wis. (Adjustable.)
Wendt-Sonis Co., Hannibal, Mo. "W-S." (Solid carbide tipped.)
Wetmore Reamer Co., 420 N. 27th St., Milwaukee 8, Wis. (Adjustable.)
Whitman & Barnes, Div. of United Drill & Tool Corp., Plymouth, Mich. "Hercules." (Solid and expansion.)
Willey's Carbide Tool Co., 1340 W. Vernor Highway, Detroit 1, Mich.
Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K.R.W."
Zoerman-Clark Mfg. Co., Jackson, Mich.

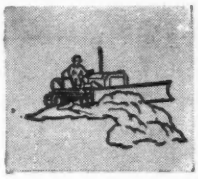
REAMERS, VALVE SEAT, See Tools, Valve Seat Refinishing

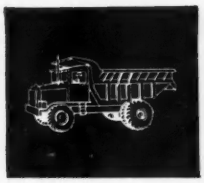
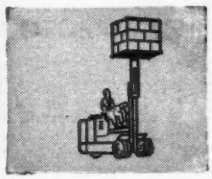
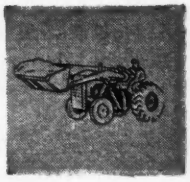
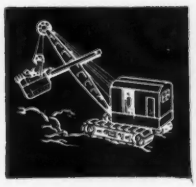
RECLAIMERS, Crankcase Oil

Burt Mfg. Co., 44 E. South St., Akron 11, O.
Hilliard Corp., 113 W. Fourth St., Elmira, N. Y "Hilco."
Honeycutt Battery Corp., 2715 Oak St., Kansas City, Mo. "Champion."
Kidde & Co., Walter, Youngstown Miller Div., 675 Main St., Belleville, N. J. "Youngstown Miller."
Sparkler Mfg. Co., Lake St., Mundelein, Ill.

RECORDERS, Vehicle Movement

Hobbs Corp., John W., Yale Blvd. & Ash St., Springfield, Ill.
Jones-Motrola Corp., 432 Fairfield Ave., Stamford, Conn.
Knopf Instrument Co., 250 Culver Ave., Jersey City 5, N. J. "Pe Ka Travel Log."
Markley Corp., Plainville, Conn.
Sangamo Electric Co., Springfield, Ill. "Sangamo Tachograph." (Sole distributors, Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo.)
Service Recorder Co., 1375 Euclid Ave., Cleveland 15, Ohio. "Servis."
United States Taximeter Co., 514 W. 54th St., New York 19, N. Y. "Ustclock," "Ustocograph," "Ustcometers."

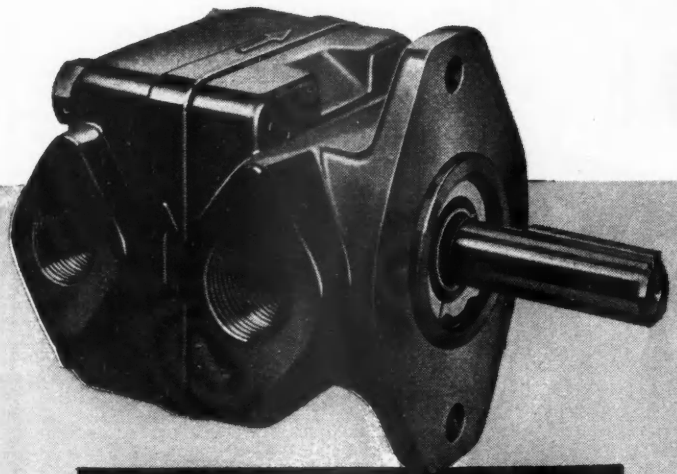


the pump designed SPECIFICALLY FOR mobile equipment service

the NEW series V-200

VICKERS BALANCED VANE PUMP



THE ONLY PUMP THAT AUTOMATICALLY MAINTAINS CORRECT RADIAL AND LATERAL CLEARANCES AT ALL TIMES

The rigorous job requirements of construction, agricultural, automotive and materials handling machinery have long pointed out the need for a hydraulic pump expressly designed for this service. The new Vickers V-200 Balanced Vane Pump has been designed and developed to meet these requirements with the usual Vickers high quality workmanship . . . all adding up to the "Best Pump Value" for this Industry.

Longer life at maximum efficiency, far in excess of fixed clearance pumps, is assured as the Vickers Pump is the only pump designed to maintain both radial and lateral running clearances at all times. Not only is normal wear perfectly compensated, the pump even automatically adjusts its clearances to oil viscosity variations resulting from temperature change. As a result, correct clearances are maintained and more oil is delivered for useful work.

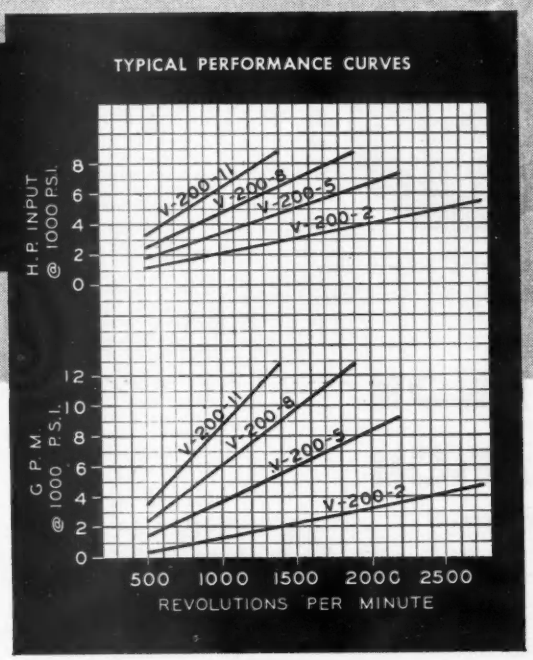
For many installations the nominal rated capacity of the pump is adequate, making it unnecessary to select the next larger size to provide additional capacity to compensate for loss due to high operating pressures, increased temperatures or normal wear. Thus, in many cases, a smaller pump can be used resulting in a more compact, efficient, and economical installation.

The tried and proven Vickers feature of "hydraulic balance" eliminates bearing loads resulting from pressure. The vane principle provides for no-load starting . . . important in cold weather cranking. Greater mounting adaptability is another advantage.

For better service, much longer life, with maximum efficiency all the way . . . you need Vickers V-200 Pump on your mobile equipment. Write for Bulletin 49-52.

3905

AVAILABLE IN FOUR CAPACITIES WITH THE SAME EXTERIOR DIMENSIONS



Write for NEW BULLETIN 49-52

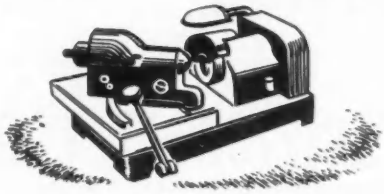
VICKERS Incorporated
DIVISION OF THE SPERRY CORPORATION
1418 OAKMAN BLVD. • DETROIT 32, MICHIGAN

Application Engineering Offices: ATLANTA • CHICAGO CINCINNATI • CLEVELAND • DETROIT • LOS ANGELES • NEWARK PHILADELPHIA • PITTSBURGH • ROCHESTER • ROCKFORD ST. LOUIS • SEATTLE • TULSA • WASHINGTON • WORCESTER

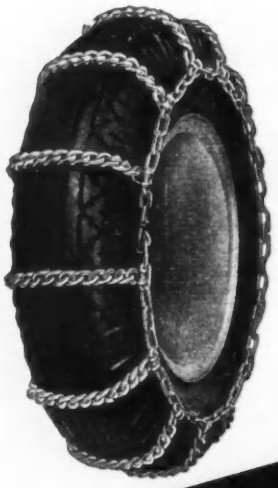
1640-1

REFACERS, Valve (Electric)

Albertson & Co., 3100 Lowell Ave., Sioux City, Ia. "Sioux."
Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.
Cedar Rapids Engineering Co., 902 N. 17th St., Cedar Rapids 1, Iowa. "Kwik-Way."
Independent Pneumatic Tool Co., Aurora, Ill. "Thor."
Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
Lee Co., K. O., Congress at First Ave., S. E. Aberdeen, S. D. "Knock Out."
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio.
S & D Engineering Co., 1709 Standard Ave., Glendale 1, Calif.
Skilsaw Inc., 5033 Elston Ave., Chicago 30, Ill. "Skil Valve."
United States Electrical Tool Co., 1050 Findlay St., Cincinnati 14, Ohio.
Van Dorn Electric Tools, Towson 4, Md.



Van Norman Co., 3640 Main St., Springfield 7, Mass.
Waterbury Tool, Div. of Vickers, Inc., 188 E. Aurora St., Waterbury 91, Conn. "Waterbury Hall."
Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K.R.W."



For Winter Weather Traction ...equip with

CLAW* TIRE CHAINS

*They GRIP because they CLAW

The cost of a set of CLAW chains isn't a drop in the bucket compared to the value of a car or truck, their loads, or your operating schedules. Keep 'em rolling surely and safely. Buy CLAW chains...the "traction insurance" used by the biggest operators.

COLUMBUS McKINNON Chain CORPORATION

General Offices and Factories: Tonawanda, N. Y.

Plants at Angola, N. Y.; St. Catharines, Ont., Can.; Vereeniging, So. Africa

REFLECTIVE MATERIALS

By-Buck Co., 4314 W. Pico Blvd., Los Angeles 6, Calif.
Minnesota Mining & Mfg. Co., 791 Forest St., St. Paul, Minn. "Scotchlite."
Prismo Safety Corp., Huntingdon, Pa.

REFLECTORS, Safety

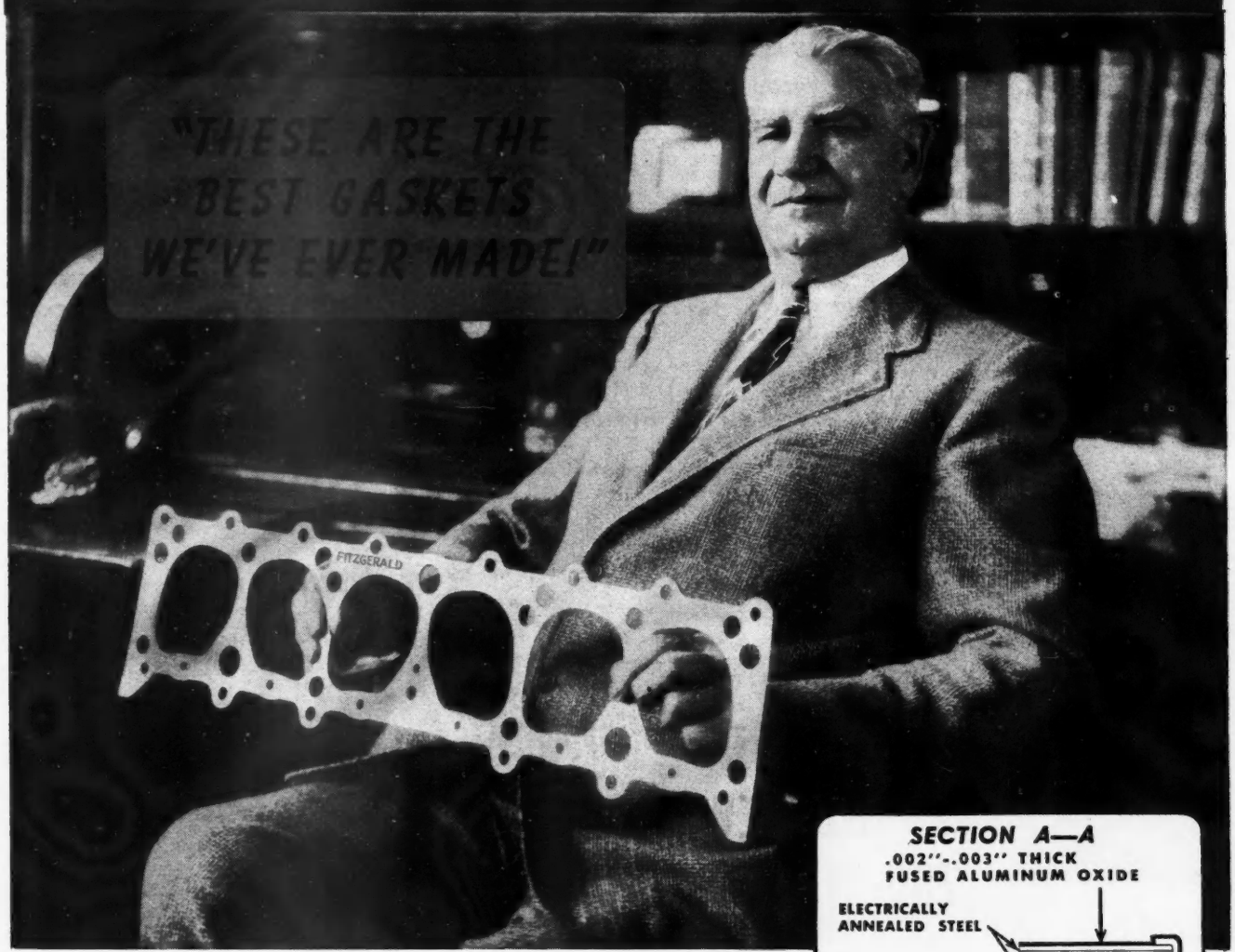
American Automatic Devices Co., Throop, Harrishon & Congress Sts., Chicago 7, Ill. "King Bee Hy-Power," "King Bee Foto-Ray."
Amesbury Metal Products Co., 39 Oakland St., Amesbury, Mass.
Anthes Force Oiler Co., Ft. Madison, Iowa.
Arrow Safety Device Co., Mt. Holly, N. J. "Arrowlite."
Bolser Corp., S. Main St., Cedar Falls, Iowa. (For trucks.)
Cole Automotive Products Co., 2644 S. Michigan Ave., Chicago 16, Ill. (For trucks, trailers and buses.)
Dietz Co., R. E., 60 Laight St., New York 13, N. Y. (For trucks.)
Do-Ray Lamp Co., 1458 S. Michigan Ave., Chicago 5, Ill. "Tiger Ey."
Griffin Lamp Co., 401 S. Third St., Hamilton, Ohio.
Grote Mfg. Co., Lafayette & Grandview Aves., Belleville, Ky.
Guide Lamp Div., General Motors Corp., 25th St. & Arrow Ave., Anderson, Ind. "Stimsonite."
Johnson Glass Co., 5248 Elston Ave., Chicago 30, Ill.
K-D Lamp Div., Noma Electric Corp., 1910 Elm St., Cincinnati 10, Ohio.
Kilborn-Sauer Co., Post Rd., Fairfield, Conn. "K-S." (Red, green or amber reflecting glass.)
Miro-Flex Co., 1824 E. Second St., Wichita 7, Kan. "Miro-Flare."
Monroe-Acme Co., 215 N. Aberdeen St., Chicago, Ill. "Norton," "Royal."
Norlipp Co., 5925 S. Lowe Ave., Chicago 21, Ill.
Persons-Majestic Mfg. Co., 54 Commercial St., Worcester, Mass.
See-Mor Lamp Co., 123 W. Pearl St., Cincinnati 2, Ohio.
Sparton Automotive Div. Sparks-Withington Co., W. North St., Jackson, Mich.
U. S. Tool & Mfg. Co., 1528 Armitage Ave., Chicago 22, Ill "Eagle Brand."
Yankee Metal Products Corp., 31 Grand St., Norwalk, Conn.

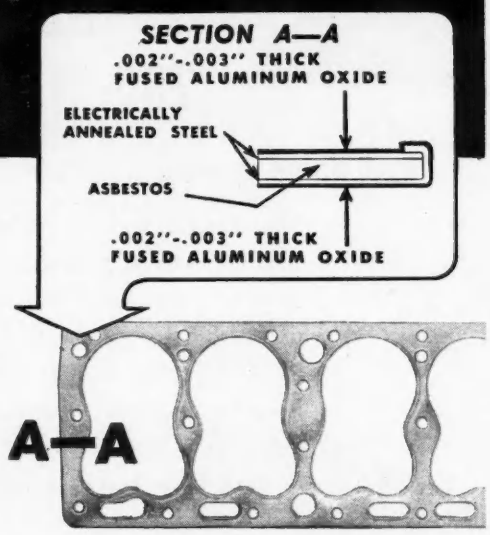
REFRIGERATING UNITS, Truck and Trailer

Air Induction Ice Bunker Corp., 122 W. 30th St., New York 1, N. Y.
American Mfg. Co., Montgomery, Ala. "Arctic Traveler."
Baker Ice Machine Co., 1522 Evans St., Omaha, Neb. "Bimco."
Bowser, Inc., Terryville, Conn. "Bowser Kold Hold."
Carrier Corp., 300 S. Keddis St., Syracuse 1, N. Y.
"Chill Cold" Mfg. Co., 7944 S. Ingleside Ave., Chicago 19, Ill.
Dole Refrigerating Co., 5920 N. Pulaski Rd., Chicago, Ill. (Vacuum cold plate evaporators.)
Dorsey Trailers, Elba, Ala. "Dorsey Serv-Cold." (Gasoline motor driven.)
Dromgold & Glenn, 1419 McCormick Bldg., Chicago, Ill. "D. & G." (Produce; also combination water and dry ice.)
Foster-Built Burkers, Inc., 757 W. Polk St., Chicago 7, Ill. (Dry ice.)
Frigidaire Div., General Motors Corp., 300 Taylor St., Dayton, Ohio.
Fruehauf Trailer Co., 10940 Harper Ave., Detroit 32, Mich. "Trail-Aire." (Trailer.)
General Electric Co., 1 River Rd., Schenectady 5, N. Y.
Industrial Manufacturing & Engineering Co., 3845 N. Ravenswood Ave., Chicago 13, Ill. "Coldjet," "BloKold," "Zone Control."
Kold Hold Mfg. Co., 620 E. Hazel St., Lansing 4, Mich.
Marvel Industries, Inc., 14600 E. Seven Mile Road, Detroit 5, Mich. (Trailer.)
Meyer Body Co., 218 Elm St., Buffalo 3, N. Y. "Frigid-Fin."
Sterling Mfg. Co., 253 Farnam St., Omaha, Neb. "Sterling Lo-Tem."
Tecumseh Products Co., Tecumseh, Mich. "Chieftain."
Theurer Wagon Works, Inc., 601 W. 56th St., New York 19, N. Y. "Theurer Icefin."

3830-50

LET P. J. FITZGERALD TELL YOU HIMSELF . .





Drivers seldom, if ever, give a thought today to the head gaskets in their engines when they are FITZGERALD METALLIC ALUMINUM-FUSED-OXIDE STEEL ASBESTOS GASKETS.*

But the greater heat and higher pressures which the new high compression engines develop today take their toll of gaskets made of ordinary materials. That's why we developed our new Fitzgerald Metallic Aluminum-Fused-Oxide Steel Asbestos Gaskets.* They stand up where others fail.

Steel, specially tempered for toughness and resiliency, provides the greater strength needed today. Fused aluminum oxide wards off corrosion and rust. Combined with top-quality asbestos filler, the result is a gasket that gives a lasting perfect seal in spite of severe punishment.

Drivers whose engines are equipped with Fitzgerald Metallic Aluminum-Fused-Oxide Steel Asbestos Gaskets* can continue to forget about them. And those who pay the repair bills can avoid the high costs of gasket failures.

*Service Mark Registration Pending

P. J. Fitzgerald
President

FITZGERALD gaskets
SINCE 1906

There's a Fitzgerald Gasket For Every Engine
Grease Retainers — Cork Gaskets — Fitz-Rite Treated Fiber Gaskets for oil, gasoline and water connections
COMPLETE SETS FOR MOTOR REBUILDERS

THE FITZGERALD MANUFACTURING COMPANY
Torrington, Connecticut

2140-1

REFRIGERATING UNITS, Truck and Trailer—cont.

Trailmobile Co., 31st & Robertson Aves., Cincinnati 9, Ohio. "Trailmobile-Broquinda." (Solid carbon dioxide.)
Transport Cooler, Inc., 33300 Thomas St., Farmington, Mich.
U. S. Thermo Control Co., 44 S. 12th St., Minneapolis 4, Minn. "Thermo-King."

REGROOVERS, Tire (Hand Operated)

Keel & Co., 65 W. Penn St., Philadelphia 44, Pa. (Electrically heated.)
Mertens Mfg. Co., 1533 Hamilton Ave., Racine, Wis. (Electrically heated.)
Peco Mfg. Co., Hope St. & Indiana Ave., Philadelphia 33, Pa.
Stackhouse, E. H., 219 N. 63rd St., Philadelphia 39, Pa. (Electrically heated.)
Thompson & Sons, O. E., 400 River St., Ypsilanti, Mich. "Champion." (Electrically heated.)
Van Tool, Inc., 139 N. 22nd St., Philadelphia 3, Pa. (Electrically heated.)

REGULATORS, Current and Voltage

American Bosch Corp., Springfield 7, Mich.
American Motor Products Co., Fond du Lac, Wis. "Ampco."
Andrews Mfg. Co., 924 S. Thersea Ave., St. Louis 3, Mo.
Auto-Lite Battery Corp., Owen-Dyneto Div., 1920 Park St., Syracuse, N. Y.
Automotive Specialty Corp., 1562 DeKalb Ave., Brooklyn 27, N. Y. "Tasco."
Delco-Remy Div., General Motors Corp., Anderson, Ind.
Electra Mfg. Co., 2537 Madison Ave., Kansas City 8, Mo.
Electric Auto-Lite Co., Toledo 1, Ohio.
Electric Auto-Lite Co., Instrument and Gage Div., La Crosse, Wis.
Freedco Products, Inc., 154 Nassau St., New York, N. Y.
F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill. "Filko."
Guaranteed Parts Co., Seneca Falls, N. Y.
Jubilee Mfg. Co., 1929 S. 20th St., Omaha 9, Neb.
Leece-Neville Co., 5363 Hamilton Ave., Cleveland 14, Ohio.
Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich. "Mapco."
Manhattan Coil Corp., 1486 Lakewood Ave., S.E., Atlanta 1, Ga.
Monarch Insulated Wire Co., 491 Broadway, New York 12, N. Y.
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.
P & D Mfg. Co., 1902 Steinway St., Long Island City, L. I., N. Y.
Preferred Electric & Wire Co., Bush Terminal Bldg., No. 8, Brooklyn 32, N. Y.
R-B-M Div., Essex Wire Corp., Chestnut & Hanna Sts., Logansport, Ind.
Shurhit Products, Inc., Waukegan, Ill.
Sorensen Mfg. Co., P., 32-31 57th St., Woodside, N. Y.
Standard Motor Products, Inc., 3718 Northern Blvd., Long Island City, L. I., N. Y. "Blue Streak."
Stan-Test Corp., 4630 W. Harrison St., Chicago 44, Ill.
Wells Mfg. Corp., 200 W. Division St., Fond du Lac, Wis.

REGULATORS, Humidity (Paint Shop)

Bristol Co., Waterbury 91, Conn.
Brown Instrument Co., 4453 Wayne Ave., Philadelphia 44, Pa.
Foxboro Co., Neponset Ave., Foxboro, Mass.
Powers Regulator Co., 2733 Greenview Ave., Chicago, Ill.
Standard Dry Kiln Co., P. O. Box 5708, Indianapolis 21, Ind.
Tagliabue Corp., C. J., 614 Frelinghuysen Ave., Newark 5, N. J. "Tag."

RELAYS, Horn and Light

American Motor Products Co., Fond du Lac, Wis.
Andrews Mfg. Co., 924 S. Thersea Ave., St. Louis 3, Mo.
Automotive Mfg. Co., 570 W. Fulton St., Chicago 22, Ill. "Amko."
Automotive Specialty Corp., 1562 DeKalb Ave., Brooklyn 27, N. Y. "Tasco."
Delco-Remy Div., General Motors Corp., Anderson, Ind.
Douglas Mfg. Co., Railroad St., Bronson, Mich. (Horn.)
E. A. Laboratories, Inc., 696 Myrtle Ave., Brooklyn, N. Y. (Horn.)
Electra Mfg. Co., 2537 Madison Ave., Kansas City 8, Mo.
Electric Auto-Lite Co., Toledo 1, Ohio. (Light.)
Electric Auto-Lite Co., Instrument & Gage Div., La Crosse, Wis.
F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill. "Filko."
Freedco Products, Inc, 154 Nassau St., New York, N. Y.
Guaranteed Parts Co., Seneca Falls, N. Y.
Jubilee Mfg. Co., 1929 S. 20th St., Omaha 9, Neb.
Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich. "Mapco."
Manhattan Coil Corp., 1486 Lakewood Ave., S. E., Atlanta 1, Ga.
New York Coil Co., Mont Clare, Pa.
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.
P & D Mfg. Co., 1902 Steinway St., Long Island City, L. I., N. Y.
Preferred Electric & Wire Co., Bush Terminal Bldg., No. 8, Brooklyn 32, N. Y.
R-B-M Div., Essex Wire Corp., Chestnut & Hanna Sts., Loganport, Ind.
Rex Mfg. Co., 415 Lake Ave., Racine, Wis.
Sorensen Mfg. Co., P., 32-31 57th St., Woodside, N. Y.
Standard Motor Products, Inc., 37-18 Northern Blvd., Long Island City 1, L. I., N. Y. "Blue Streak."
Stan-Test Corp., 4630 W. Harrison St., Chicago 44, Ill.
Wells Mfg. Corp., 200 W. Division St., Fond du Lac, Wis. (Light.)
Whitaker Cable Corp., 1301 Burlington Ave., North Kansas City 16, Mo. (Light.)

you'll sure get a lot of use out of

THE NEW AIRCO 700 WELDING TORCH!

Just Name It—the "700" can weld it... braze it... or cut it.

Noted for its versatility, this exceptional torch is designed to handle oxyacetylene welding and brazing repair work in your shop . . . and when equipped with a multi-flame tip, it is unbeatable for pre-heating fenders prior to straightening. Also, with the addition of a cutting attachment, the "700" is easily converted to handle occasional cutting jobs.

The new "700" is highly recommended for repairing torn fenders, body braces, headlight brackets, bumper supports, and many parts.

If you would like more information or a free demonstration right in your own shop, get in touch with your nearby Airco Authorized Dealer, or local office today.

AIRCO AIR REDUCTION
Offices in Principal Cities
Plus a Nationwide Dealer Organization

Headquarters for Oxygen, Acetylene and Other Gases...Carbide...Gas Cutting Machines ...Gas Welding Apparatus and Supplies...Arc Welders, Electrodes and Accessories

3327-50

JACKS THAT WON'T WORK ARE A LIABILITY...

WEED OUT YOUR WORN OUT JACKS!

*Replace them with Hein-Werner Hydraulics at these *NEW LOW PRICES!*

NOTE THESE PRICES NOW IN EFFECT ON THE FOLLOWING MODELS!

MODEL	CAPACITY	FORMER PRICE (DEALER)	NEW PRICE (DEALER)
E1.7F	1½ Tons	~~$ 6.95~~	$ 5.65
E3.9A	3 Tons	~~12.1~~	10.65
E5.9A	5 Tons	~~14.25~~	12.80
E8.9A	8 Tons	~~15.65~~	14.65
E12.9A	12 Tons	~~27.65~~	19.25
20.10AA	20 Tons	~~36.80~~	32.50
GA (SERVICE JACK)	4 Tons	~~127.25~~	119.25

Available for immediate delivery... Order through your H-W Jobber TODAY!

Hein-Werner HYDRAULIC JACKS

HEIN-WERNER

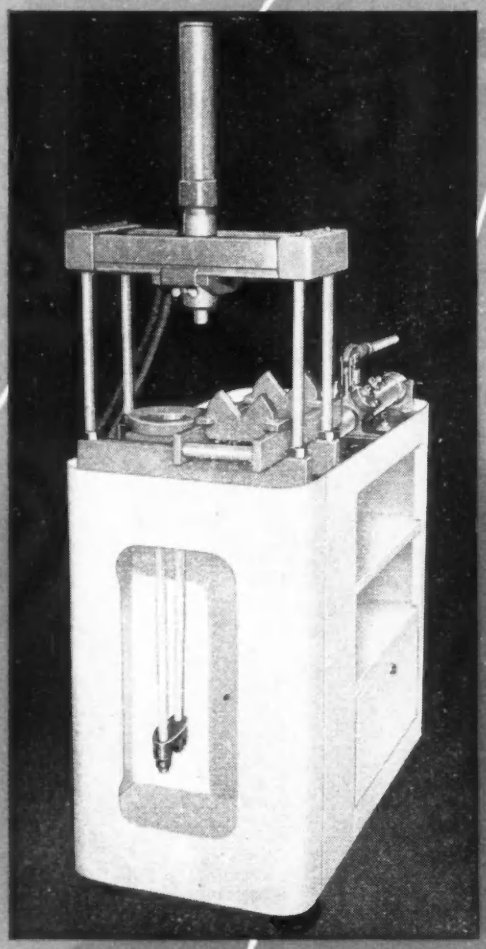
HEIN-WERNER CORPORATION • WAUKESHA • WISCONSIN

2034-1

Portable.... POWERPLUS ....

PUSH DOUBLE ACTING HYDRAULIC BODY JACKS PULL

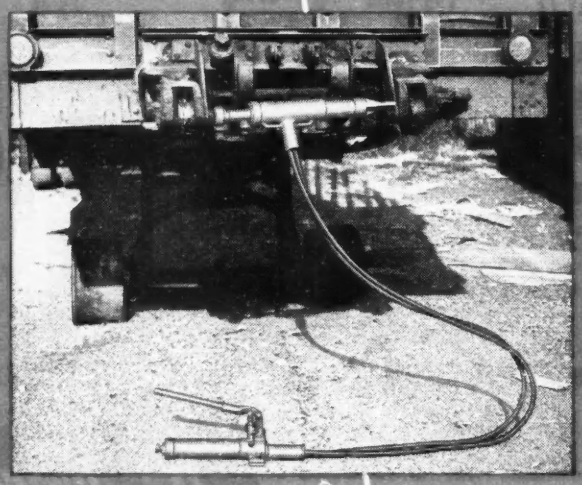
for body, fender



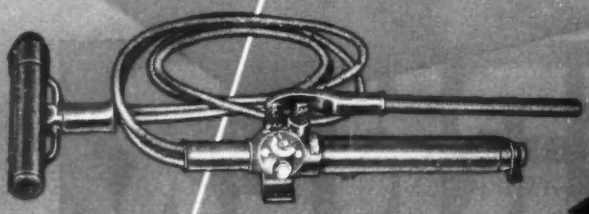
Shown above is Model H-616 Portable Stand with H-613 Four Post Press. Ample room is provided to carry Hydraulic Utility Units and attachments.

HERE'S GOOD NEWS for *YOU!* Hein-Werner has purchased the assets of the G.A.C. Mfg. Co., Ashland, Ohio, and their popular Hydraulic Utility Units for body, fender and frame repair work are now manufactured and sold by Hein-Werner.

YOU GAIN because these service-proven Hydraulic Utility Units now have the advantage of Hein-Werner experienced engineering and modern manufacturing facilities which have been big



ALIGNING automatic hitches — using 20-ton Hydraulic Utility Unit and spring attachments.



H-800 Remote control 4-ton Hydraulic Utility Unit, illustrated, only **$45**

Attachments and assembly parts $63.00. West Coast prices slightly higher.

Ask your jobber or write for details... HEIN-WERNER

...New... HEIN-WERNER

Double-Acting G.A.C. Push or Pull

HYDRAULIC UTILITY UNITS

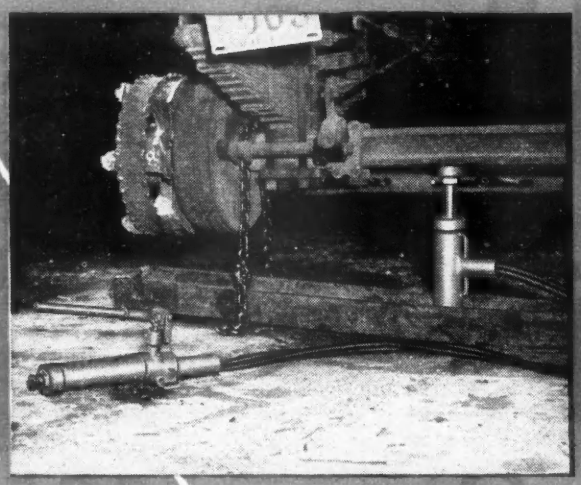
and frame repairing...

factors in making Hein-Werner the world's largest manufacturer of hydraulic jacks.

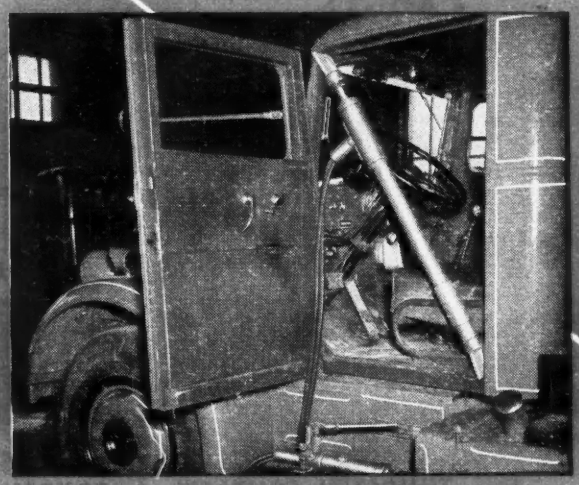
NOW, for a very small investment you can have a complete body, fender and frame repair unit for your own fleet. Now your jobber can supply you with service-proven Hydraulic Utility Units which will enable your mechanics to quickly and easily handle all of this type of work at a great saving in time.

These compact, powerful, double-acting, push or pull Hydraulic Utility Units of 4, 10, or 20 tons capacity—with wide variety of attachments—are available to meet all fleet maintenance requirements.

You'll find Double-Acting G.A.C. Push or Pull Hydraulic Utility Units unsurpassed for repair jobs such as Body Alignment, Frame Work, Box Channel, Fender Straightening, Rear Axle Housing Jobs, Bumper Straightening, Knee Action Adjustments, Front Axle Straightening, etc.



STRAIGHTENING axle using 20-ton Hydraulic Utility Unit, I Beam and chain.



PUSHING post to allow door to close, using special couplings and pushing ends from Assortment No. 11-A.

CORPORATION, Waukesha, Wis.

HEIN-WERNER also manufactures . . . Bumper-Lift Jacks for passenger cars . . . Under-Axle Jacks for trucks and buses . . . Service Jacks for shop use.

Hein-Werner HYDRAULIC JACKS

HEIN-WERNER CORP., Waukesha, Wis.
Rush details and prices on Double-Acting G.A.C. Push or Pull Hydraulic Utility Units for body, fender and frame repair work.

NAME _____

FIRM NAME _____

ADDRESS 3860-2

CITY _____ ZONE _____ STATE _____

REMOVERS, OIL AND GREASE. See Solvents, Oil, Carbon and Grease Removing

REMOVERS, Paint, Enamel and Varnish

Acme White Lead & Color Works, 8250 St. Aubin Ave., Detroit 11, Mich. "Proxlin."
American Chemical Paint Co., Brookside Ave. & Reading R. R., Ambler, Pa. "Solvent No. 3."
American Varnish Co., 1138 N. Branch St., Chicago 22, Ill.
Arco Co., 7301 Bessemer Ave., Cleveland 4, Ohio.
Ball Chemical Co., Empire Bldg., Pittsburgh 22, Pa.
Berry Bros., 211 Lieb St., Detroit, Mich.
Bownes Co., Frank, 305 Eastern Ave., Chelsea, Mass. "Modene."
Brown Co., Andrew, 5400 District Blvd., Los Angeles 22, Calif. "Brolite."
Celco Corp., 110 E. 42nd St., New York 17, N. Y.
Clayton Mfg. Co., 1363 Ellis Lane, El Monte, Calif. "Kaystrip." (Oil base paint.)
Cooper Co., D. C., 1467 S. Michigan Ave., Chicago 5, Ill. "D. C."
Curran Corp, Lawrence, Mass.
Day & Co., James B., 1872 Clybourn Ave., Chicago 14, Ill. "Kut-Kote."
Detrex Corp., Box 501, Detroit 32, Mich. "Detrex," "Triad."
Ditzler Color Div. of Pittsburgh Plate Glass Co., 8000 W. Chicago Ave., Detroit 4, Mich.
du Pont de Nemours & Co., E. I., Electro-Chemicals Dept., Wilmington, Del.
Finch Ltd., Leon, 728 E. 59th St., Los Angeles, Calif. "Enamolift," "Leolift."

the Dependable Performance of

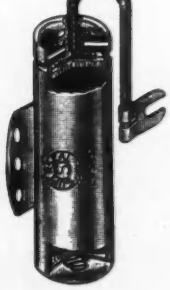
SPRINGFIELD

SUPERPOINT TUNGSTEN CONTACTS

Large diameter tungsten points (.187) last TWICE AS LONG as ordinary contacts — are furnace welded in hydrogen atmosphere, guaranteeing perfect bond. Strict adherence to original specifications; radius ground and polished stationary contact.

SUPERSEAL CONDENSERS

Proofed against water, oil, acids, gas and fumes — each unit is stamped with identifying number. In any climate or operating condition, Superseal Condensers demonstrate their superior electrical qualities.



SPRINGFIELD ELECTRICAL SPECIALTIES, INC.
120 WOOSTER ST., N. Y. 12, N. Y. • EXPORT DEPT.: 120 W. 42nd ST., N. Y. 18, N. Y.

Gerlach Co., E. A., P. O. Box 183, Eddington, Bucks County, Pa. "70 Stripper." (Hot.)
Heath & Milligan Mfg. Co., 1833 S. Normal Ave., Chicago, Ill, "Dependable."
Industrial Chemical Products Co., 3769 Bellevue Ave., Detroit 7, Mich. "Industro."
Kelite Products, Inc., Box 2917 Terminal Annex, Los Angeles 54, Calif.
Klem Chemicals, Inc., 14401 Lanson St., Dearborn, Mich.
Lucas & Co., John, 1617 Pennsylvania Blvd., Philadelphia 3, Pa. "Mirac."
Magnuson Products Corp., 50 Court St., Brooklyn, N. Y. "Permag."
Martin-Senour Co., 2520 Quarry St., Chicago 8, Ill.
Morris Paint & Varnish Co., 1823 Washington Ave., St. Louis 3, Mo. "Superwet." (Paint and varnish.)
Nason & Co., R. N., 151 Potrero Ave., San Francisco, Calif. "Remuvol."
Oakite Products, Inc., 22 Thames St., New York 6, N. Y.
Pennsylvania Salt Mfg. Co., 1000 Widener Bldg., Philadelphia 7, Pa. "Pennsalt."
Practical Products Co., 2632 Nicollet Ave., Minneapolis 8, Minn. "Kleer-Flo."
Pratt & Lambert, Inc., 75 Tonawanda St., Buffalo 7, N. Y. "Expedite."
Rossaul Co., 170 Fifth Ave., New York 10, N. Y. "Rossaul No. 23."
Sewell Paint & Varnish Co., 1009 W. Eighth St., Kansas City, Mo. "Kleen Kut."
Sherwin-Williams Co., 101 Prospect Ave., N. W., Cleveland 1, Ohio. "Taxite."
Solrun Services Inc., 49 N. Second St., Philadelphia 6, Pa. "Solv," "Vaposolv," "Nasolv."
Standard Varnish Works, 2600 Richmond Terrace, Staten Island 3, N. Y. "Klensa."
Steelcote Mfg. Co., 3418 Gratiot Ave., St. Louis 3, Mo.
Turco Products, Inc., 6135 S. Central Ave., Los Angeles 1, Calif. "Turco Stripper," "Turco Paint-Gon."
V. E. P. Co., 400 E. Lafayette Ave., Detroit 26, Mich. "Veco."

RETAINERS, Oil and Grease

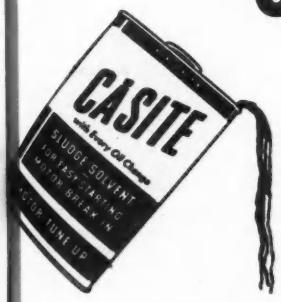
Acadia Div, Western Felt Works, 4035 Ogden Ave., Chicago 23, Ill. "Acadiaseal." (Synthetic rubber.)
Alloy Mfg. Co., 3207 S. Shields Ave., Chicago 16, Ill. "Quality Built."
Atlas Asbestos Co., North Wales, Pa. (Water pump.)
Booth Felt Co., 476 19th St., Brooklyn 15, N. Y. (Felt.)
Brummer Mfg. Corp., 1324 McKinley St., Chicago Heights, Ill.
Burgess Leather Co., A. E., Brigham Hill Rd., Grafton, Mass. "Grafton."
Copeland-Gibson Products Corp., 7451 W. Eight Mile Rd., Detroit, Mich. "C-G."
Felt Products Mfg. Co., 1508 Carroll Ave., Chicago 7, Ill. "Fel-Pro."
Fitzgerald Mfg. Co., 691 Main St., Torrington, Conn.
Gits Bros. Mfg. Co., 1846 S. Kilbourn Ave., Chicago, Ill.
Graphite Metallizing Corp., 1080 Nepperhan Ave., Yonkers 3, N. Y. "Graphalloy."
Graton & Knight Co., 356 Franklin St., Worcester 4, Mass. (Synthetic, to order.)
Jambor Tool & Stamping Co., 3057 N. 30th St., Milwaukee, Wis. "Bull Dog." (For Ford, Chevrolet and Plymouth cars.)
Lothrop Co., Frank B., 81 River St., South Acton, Mass. "Tiger." (For Ford and Chevrolet cars.)
Michigan Leather Products Co., 6301 E. Lafayette St., Detroit 7, Mich. "Milpaco."
National Motor Bearing Co., Redwood City, Calif. (Seals.)
Ohio Rubber Co., 300 Ben Hur Ave., Willoughby, Ohio. "Oreo."
Otto Items, Inc., 4390 Olive St., St. Louis 8, Mo. ("Tru-Flex" for Chrysler cars; "Tru-Torque" for Ford and Studebaker cars.)
Pure Carbon Co., 441 Hall Ave., St. Marys, Pa. "Purebon."
Roberts Toledo Rubber Co., Prospect & MC RR., Toledo 6, Ohio.
Rodic Rubber Corp., Allen Ave., New Brunswick, N. J.
Simplex Piston Ring Mfg. Co., 3830 Kelley Ave., Cleveland 14, Ohio.
Steel or Bronze Piston Ring Corp., 548 S. Meridian St., Indianapolis, Ind.
Trautner Mfg. Co., 876 University Ave., St. Paul 4, Minn. (Rear axle, for Ford, Chevrolet, Plymouth, Dodge, DeSoto and Chrysler cars.)
Universal Oil-Seal Co., 34 W. Kennett Rd., Pontiac, Mich.
Victor Mfg. & Gasket Co., 5750 W. Roosevelt Rd., Chicago 50, Ill. "Victoprene."
Western Felt Works, 4035 Ogden Ave., Chicago 23, Ill. "Resistofelt." (Felt.)

Quick Starting

Smooth Going

THAT'S WHAT YOU GET WITH THE

CASITE *Winter* TREATMENT



- A PINT IN THE CRANKCASE
- A PINT THROUGH THE AIR INTAKE

(According to directions on container)

- You get quick starts everytime, smooth going all the time—with the simple, quick Casite Winter Treatment.

Casite in the crankcase retards congealing of oil . . . lets the motor spin over and start . . . no matter how cold the weather. It cuts dangerous start-up wear, cuts repair bills, too.

Casite through the air intake conditions the engine for winter . . . frees sticky valves and rings . . . keeps the engine free-running.

Make the Casite Winter Treatment a standard fleet service.

THE CASITE CORPORATION · HASTINGS, MICHIGAN

3850-1

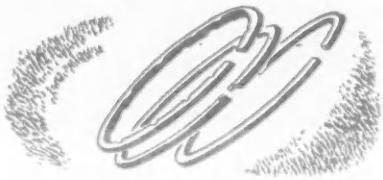
Quick Starting Smooth Going or Double-Your-Money-Back

RIMS, Wheel

Firestone Steel Products Co., 1200 Firestone Parkway, Akron 10, Ohio.
Goodyear Tire & Rubber Co., 1144 E. Market St., Akron 16, Ohio.
Kelsey-Hayes Wheel Co., 3600 Military Ave., Detroit 32, Mich.
Motor Wheel Corp., 701 E. Saginaw St., Lansing 3, Mich.

RINGS, Piston

Burd Piston Ring Co., Tenth St. & 23rd Ave., Rockford, Ill. "Burd Graf-Flox."
Coil Piston Ring Co. of America, 4005 Washington Blvd., St. Louis 8, Mo.
Cords Piston Ring Mfg. Co., 1351 S. Olive St., Los Angeles 15, Calif.
Double Seal Ring Co., 2065 Montgomery St., Ft. Worth, Tex.
Gill Piston Ring Co., 6900 Cottage Grove Ave., Chicago 37, Ill.
Haling Co., 1061 First Ave., Rochester, Minn.
Hangliter Mfg. Co., 983 S. Raymond Ave., Pasadena, Calif. "Hanco."
Hastings Mfg. Co, 375 E Mill St, Hastings, Mich. "Steel-Vent."
International Parts Corp., 11th & State Sts., Chicago 5, Ill.
Kopper Co., Piston Ring Dept., Bush & Hamburg Sts., Baltimore 3, Md. "American Hammered."
Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill. "Hico."
Luthy Co., F. A., 302 Cooper St., Jackson, Mich.
McQuay-Norris Mfg. Co., 2320 Marconi St., St. Louis 10, Mo. "Leak Proof."
Moog Piston Ring Co., Div. of Moog Industries, Inc., 6650 Easton Ave., St. Louis 14, Mo.
Muskegon Piston Ring Co., Sixth & Alpha Sts., Muskegon, Mich.
Pacific Piston Ring Co., 1410 S. Los Angeles St., Los Angeles 15, Calif.
Perfect Circle Corp., 552 S. Washington St., Hagerstown, Ind.
Ramsey Corp., 3693 Forest Park Blvd., St. Louis 8, Mo. "Ramco."
Richmond Ring Co., Souderton, Pa.
Roberts Mfg. Co., Rear 4104 Manchester St., St. Louis 10, Mo.



Royal Piston Ring Co., Bath, N. Y. "Ascot," "Everyday," "Ever Step," "Maidrite," "Royal."
Sealed Power Corp., 500 Sanford St., Muskegon, Mich.
Simplex Piston Ring Mfg. Co., 3830 Kelley Ave., Cleveland 14, Ohio.
Steel or Bronze Piston Ring Corp., 546 S. Meridian St., Indianapolis 4, Ind. "Non-Breakable." (Steel or bronze.)
Superior Piston Ring Co., 6425 Epworth Bldv., Detroit 10, Mich. "Mor-Power," "Spring-Tite," "Steel-Master," "Sealz-It." (Sole distributors, Winkenwelder & Ladd, Inc., 1421 S. Michigan Ave., Chicago 5, Ill.)
Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio.
Toledo Steel Products Co., 3300 Summit St., Toledo 11, Ohio. "Diatrol," "Toledo First-Line."
Valve-Tite Piston Ring Co., Sheperd St., Toledo 1, Ohio. "Valv-Tite." "Fit-Well," "RX," "Universal," "Layr-Bilt," "Royal Crown."
Wausau Motor Parts Co., 1003 Harrison Blvd., Wausau, Wis. "Wausau," "Savoil," "XX Oil Savr," "Super Portoil," "XX Super Portoil."
Wel-Ever Piston Ring Co., 1701 Speilbusch Ave., Toledo 1, Ohio. "Bevl Chanl," "Flexo," "Super Flexo," "Speed," "Dran-Bac," "Multi-Comp," "Aroloy," "Welco," "Dual Compression," "Twin-Rail," "Aro Cast," "E. C. Slot," "Fast Flow," "Free Drain," "Flexo-Steel," "High Test Comp," "Improved Aroloy," "BC Flexo," "Welco-X."
White Machine Works, 1401 Bellevue Ave., Eau Claire, Wis. "Superior."
Wilkening Mfg. Co., 2000 S. 71st St., Philadelphia 42, Pa. "Pedrick."

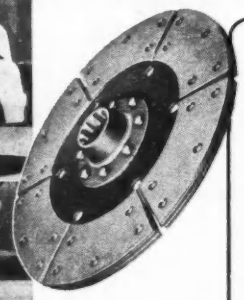
RINGS, Piston Expanders, See Expanders, Piston, Ring

RIVETERS

Chicago Pneumatic Tool Co., 6 E. 44th St., New York, N. Y. "Boyer." (Portable pneumatic.)
Chicago Rivet & Machine Co., 9603 W. Jackson Blvd., Bellwood, Ill. (Chicago Suburb.)
Ferracute Machine Co., 429 E. Commerce St., Bridgeton, N. J.
Grant Mfg. & Machine Co., 90 Silliman Ave., Bridgeport 5, Conn.
Hanna Engineering Works, 1765 Elston Ave., Chicago 22, Ill. (Pneumatic and hydraulic)
Hannifin Corp., 1101 S. Kilbourn Ave., Chicago 24, Ill. (Hydraulic.)
High Speed Hammer Co., 313 Norton St., Rochester 5, N. Y. (High speed pedestal hammer type.)
Hydraulic Press Mfg. Co., Mount Gilead, Ohio. "H-P-M."
Independent Pneumatic Tool Co., 175 State St., Aurora, Ill. "Thor." (Portable pneumatic.)
Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y.
Lempco Products, Inc., 5727 Dunham Rd., Bedford, Ohio.
National Rivet & Mfg. Co., Waupun, Wis.
Norin Engineering Co., 355 N. Union Park Ct., Chicago, Ill. (Hydro-mechanical.)
Oilgear Co., 1303a W. Bruce St., Milwaukee 4, Wis.
Penn Rivet & Machine Co., Third & Huntingdon Sts., Philadelphia 33, Pa. (Pedestal and bench types.)
Power Brake Parts Mfg. Co., 8060 Wheeler

The City of New York uses Velvetouch All-Metal Clutch Plates and Facings

For year-round dependability and maximum economy the City of New York specifies Velvetouch . . . the all-metal facing that out-performs and outlasts 'em all! In heavy weather, when snow bound streets put extra strain on clutch plates and facings . . . Velvetouch keeps trucks and tractors "on the job" with fewer adjustments, fewer breakdowns . . . because Velvetouch is built to take it! Send for details today.



THE S. K. WELLMAN CO.
WAREHOUSING CENTERS
ATLANTA . 119 14th St., N. E.
BOSTON . 171 Brighton Ave.
CHICAGO . . 2800 S. Parkway
CLEVELAND . 1392 E. 51st St.
DALLAS . . . 3407 Main St.
LOS ANGELES 1110 S. Hope St.
PHILADELPHIA 97 E. Montana St.
PORTLAND 636 N. W. 16th Ave.
SAN FRANCISCO 424 Bryant St.
TORONTO, ONTARIO, CANADA
The S. K. Wellman Co., of Canada, Ltd. 2839 Dufferin St.
WASHINGTON, D. C., OFFICE
1101 Vermont Ave., N. W.

25 years of service 1924-1949

FOR BRAKE AND CLUTCH USE Velvetouch

THE S. K. WELLMAN CO.
1374 E. 51st St • Cleveland 3, Ohio

1940-50

HOW YORK-HOOVER BODIES help cut your DELIVERY COSTS

REASONS WHY

1. All-metal body structure is balanced to produce minimum weight.
2. Exclusive body framework and assembly details result in many *extra years* of service.
3. Construction includes replacement parts study for maintenance economy.
4. Details of convenience for driver and garage personnel carefully considered.
5. *Your* body is engineered for *your* specific job — and *yours* alone.

Year after year new customers discover what old customers have already learned—that York-Hoover's 57 years' experience, plus sound engineering and honest workmanship, produces truck bodies that do the job better. If your problem is to cut your "per package" delivery cost, it will pay you to get the York-Hoover story . . . Now!

YORK, PENNSYLVANIA

YORK-HOOVER BODY DIVISION CORPORATION

3831-1

RIVETERS—cont.

Ave., Detroit 10, Mich. (Portable pneumatic.)
Taylor & Fenn Co., 54 Arch St., Hartford 1, Conn.
Tomkins-Johnson Co., 617 N. Mechanic St., Jackson, Mich. "Rivitor."

RIVETS, Blind

Cherry Rivet Co., 231 Winston St., Los Angeles 13, Calif.
Clark Equipment Co., Buchanan, Mich.
Dill Mfg. Co., 700 E. 82nd St., Cleveland 8, Ohio. "Lok-Skru," "Lok-Rivet."
du Pont de Nemours & Co., E. I., Explosives Dept., Wilmington, Del. (Explosive type.)
Goodrich Co., B. F., 500 S. Main St., Akron, Ohio. "Rivnut."
Huck Mfg. Co., 2480 Bellevue Ave., Detroit 7, Mich. (Aluminum and steel.)
South Chester Corp., 1418 South Penn Square, Philadelphia 2, Pa. "Southco."

RODS, CONNECTING, See Connecting Rods

RODS, Welding

Acme Electric Welder Co., 2618 Fruitland Rd., Los Angeles 11, Calif. "Acmeloy," "Hardaloy," "Stainaloy," "Superloy."
Air Reduction Sales Co., Lincoln Bldg., 60 E. 42nd St., New York 17, N. Y. "Airco."
Allis-Chalmers Mfg. Co., Milwaukee 1, Wis.
Alloy Rods Co., W. Market St., York, Pa. "Acaloy," "Bronze-Arc," "Nickel-Arc," "Tool-Arc," "Wear-Arc," "Weld-Arc."
All-State Welding Alloys Co., 96 W. Post Rd., White Plains, N. Y. "All-State," "Keenweld."
Aluminum Co. of America, Gulf Bldg., Pittsburgh 19, Pa.
American Brass Co., 414 Meadow St., Waterbury, Conn. "Anaconda," "Tobin Bronze."
American Steel & Wire Co., Rockefeller Bldg., Cleveland 13, Ohio.
Ampco Metal, Inc., 1745 S. 38th St., Milwaukee 4, Wis. "Ampco-Trode," "Ampcoloy," Ampco-Weld."
Atlantic Steel Co., 16th & Mecaslin St., Atlanta, Ga.
Burdett Oxygen Co. of Cleveland, Inc., 3300 Lakeside Ave., Cleveland 14, Ohio. "Burdox."
Central Steel & Wire Co., 3000 W. 51st St., Chicago 80, Ill. "Swedox."
Chicago Hardware Foundry Co., North Chicago, Ill. "Fuse-Well," "Moly."
Cleveland Tungsten Mfg. Co., 10200 Meech Ave., Cleveland, Ohio.
Dockson Corp., 3839 Wabash Ave., Detroit 8, Mich.
Electric Arc Inc., 152 Jelliff Ave., Newark, N. J. "Newarc."
Ensign Products Co., 3528 E. 76th St., Cleveland 5, Ohio.
Eutectic Welding Alloys Corp., 40 Worth St., New York 13, N. Y.
Harnischfeger Corp., 4400 W. National Ave., Milwaukee, Wis. "P & H."
Haynes Stellite Co., Kokomo, Ind.
Hobart Bros. Co., Canal Locks Square, Troy 1, Ohio.
International Nickel Co., 67 Wall St., New York 5, N. Y. "Ni-Rod."
K-W Ignition Corp., 1767 E. 27th St., Cleveland, Ohio. (Tungsten.)
Krembs & Co., 669 W. Ohio St., Chicago 10, Ill. "Kop-R-Arc."
Lincoln Electric Co., Coit Rd. & Kirby Ave., Cleveland, Ohio. "Stable-Arc," "Stainweld A," "Lightweld," "Manganweld," "Aluminweld," "Fleetweld," "Hardweld," "Ferroweld," "Toolweld," "Abrasoweld," "Chromweld," "Aerisweld," "Wearweld," "Softweld," "Faceweld," "Surfaceweld," "Shield-Arc," "Planeweld."
Linde Air Products Co., 30 E. 42nd St., New York 17, N. Y. "Oxweld."
McKay Co., 1005 Liberty Ave., Pittsburgh 22, Pa. "McKay Rod."
Mallory & Co., P. R., 3029 E. Washington St., Indianapolis 6, Ind (Resistance.)
Marquette Mfg. Co., 307 E. Hennepin Ave., Minneapolis 14, Minn.
Metal & Thermit Corp., 120 Broadway, New York, N. Y. "Murex."
National Cylinder Gas Co., 840 N. Michigan Ave., Chicago 11, Ill. "NCG," "Sureweld."
Page Steel & Wire Div. of American Chain & Cable Co., Monessen, Pa.
Pittsburgh Steel Co., Grand Bldg., Pittsburgh 30, Pa.
Revere Cooper and Brass Inc., 230 Park Ave., New York 17, N. Y. (Copper, brass and bronze.)
Scully Steel Products Co., 1319 Wabansia Ave., Chicago, Ill.
Sight Feed Generator Co., 14 N. Tenth St., Richmond, Ind "Rexare."
Smith Corp., A. A., 27th & Hopkins Sts., Milwaukee 1, Wis. "Smithway."
Speer Carbon Co., St. Marys, Pa. "A C Weld."
Superior Oxy-Acetylene Machine Co., 1102 E. High St., Hamilton, Ohio.
Weiger-Weed & Co., (Div. Fansteel Metallurgical Corp.), 11644 Cloverdale Ave., Detroit 4, Mich. "W-W."
Welding Equipment & Supply Co., 223 Leib St., Detroit 7, Mich. "Eureka." (Tool steel; alloy.)
Westinghouse Electric Corp., 306 Fourth Ave., Pittsburgh 30, Pa.
Wilson Welder & Metals Co., 60 E. 42nd St., New York 17, N. Y.

ROTORS, DISTRIBUTOR, See Parts, Magneto, Coil and Distributor

RUB-RAILS, PRESSED STEEL, See Rails, Rub (Pressed Steel)

RUST PREVENTIVES

Allied Research Products, Inc., 4004 E. Monument St., Baltimore 5, Md. "Iridite."
Alox Corp., 70 Pine St., New York 5, N. Y.
American Chemical Paint Co., Brookside Ave. & Reading R.R., Ambler, Pa. "Deoxidine," "Deoxylyte," "Peroline," "Spray-Granodine," "Thermoil-Granodine," "Duridine" for ferrous metal.
American Rust Proof Co., 8 W. 40th St., New York, N. Y. "Vatu."
Automotive Rubber Co., 8601 Epworth Blvd., Detroit 4, Mich. "Arco."
Ball Chemical Co., Empire Bldg., Pittsburgh 22, Pa.
Bradford Oil Co., Boston Rd., Palmer, Mass. "Cedaroleum." (Preventing.)

"Cleveland"

NEW STYLE

Overhead Door Check and Hold-Back!

No. 2395 AA

Acts as an efficient door check when door is swung forcibly open, also holds door open at a 90° angle.

Large spring permits slide to pass over center and hold door open. Can be released by driver's arm while he is using both hands, automatically slamming shut. Not necessary to install a separate door holder.

Slot provided on bracket for ease of adjustment while installing.

A POST CARD WILL BRING MORE DETAILED INFORMATION

REMEMBER: *You Can Do It Better With A Forging*

The Cleveland Hardware & Forging Co.
Established 1881
3264 East 79th St. Cleveland 4, Ohio

3830-50

BENIUM* *Heat-resisting material is the secret ingredient developed by the Marshall-Eclipse Division of Bendix and used exclusively in Eclipse brake linings and heavy-duty brake blocks.*

The man at the wheel can't help noticing the improvement immediately when you install Bendix Eclipse Brake Blocks—the smoother, safer stops show up right from the start. But, even more important are the long run advantages; because, *Benium* assures mile after mile of extra service life and impressive savings on expensive maintenance work. You can prove it yourself—just put them on your trucks, check the speedometers, then sit back and watch those bonus miles roll by. From then on you'll always insist on Bendix Eclipse Brake Blocks.

Bendix Eclipse

BRAKE BLOCKS

PRODUCT OF

the Greatest Name in Braking!

MARSHALL-ECLIPSE DIVISION OF
TROY, NEW YORK

Bendix
AVIATION CORPORATION

1945-1

RUST PREVENTIVES—cont.

Brown Co., Andrew, 5400 District Blvd., Los Angeles 22, Calif. "Brolite."
Bruce Products Corp., Howell, Mich. "Non-Rust."
Buchanan Chemical Co. C. G., 4640 Baker Rd., Cincinnati 12, Ohio. "Bu-Co."
Cabot, Inc., Samuel, 141 Milk St., Boston 9, Mass. "Tasgon."
Cannon Chemical Co., 181 Portland St., Cambridge 41, Mass. "Nutbuster."
Castor Oil Products, Inc., 145 Alexander St., Yonkers 2, N. Y. "Trizol."
Celco Corp., 110 E. 42nd St., New York 17, N. Y.
Champion Products, Inc., P. O. Box 291, Stephenville, Tex.
Chicago, Hydraulic Oil Co., 11618 S. Front St., Chicago 28, Ill. "Pennytroyl."
Cities Service Oil Co. (Pa.), 60 Wall Tower, New York 25, N. Y. "Anti-Corrode."
Cooper Co., D. C., 1467 S. Michigan Ave., Chicago 5, Ill. "D. C."
Crystal Soap & Chemical Co., 6300 State Rd., Philadelphia 35, Pa.
Dearborn Chemical Co., 310 S. Michigan Ave., Chicago 4, Ill. "No-Ox-ID."
Dennis Chemical Co., 2701 Papin St., St. Louis 3, Mo. "Red-Skin."
Ditzler Color Div., Pittsburgh Plate Glass Co., 8000 W. Chicago Ave., Detroit 4, Mich.
Edward Sales Co., 36 Bowne St., Flushing, N. Y. (Removing.)
Emerol Mfg. Co., 242 W. 69th St., New York 23, N. Y. "Marvel Mystery Oil."
Ensign Products Co., 3528 E. 76th St., Cleveland 5, Ohio.
Esso Standard Oil Co., 15 W. 51st St., New York 19, N. Y.
Excelo Mfg. Co., 1107 S. Fremont Ave., Alhambra, Calif. "Noxoff." (Cylinder heads, tail pipes, mufflers, etc.)
Foster & Kester Co., Reading North Broad Street Station Bldg., Philadelphia 32, Pa. "Lustre Sealzit."
Freedom-Valvoline Oil Co., Third Ave. & Sixth St., Freedom, Pa.
Globe Imperial Corp., 2025 Kishawaukee St., Rockford, Ill. "Plastic-Seal."
Grapho Products, Inc., P. O. Box 300, Lawrence, Ind. "Pen-A-Trate."
Hollingshead Corp., R. M., 840 Cooper St., Camden, N. J. "Whiz."
Houghton & Co., E. F., 303 W. Lehigh Ave., Philadelphia 33, Pa. "Cosmoline," "Rus-Veto." (Preventing.)
Industrial Chemical Products Co., 3769 Bellevue Ave., Detroit 7, Mich. "Industro," "So Klean."
Interchemical Corp., Finishes Div., 57 State St., Newark 1, N. J. "Protektol."
Johnson Mfg. Co., Mt. Vernon, Iowa. "Tin-Ezy Brand Z." (Preventing.)
Kano Laboratories, 75 E. Wacker Drive, Chicago 1, Ill. "Kano Microil."
Kelly Co., J. W., 3401 W. 140th St., Cleveland 11, Ohio. "Beacon Brand."
Kerkling & Co., 12270 Montague St., Pacoima, Calif. "K & W."
Liquid Veneer Corp., Urban & Kehr Sts., Buffalo 11, N. Y. "Rust-Kill."
Lubaid Co., 155 E. Kilbourn St., Milwaukee 1, Wis. "Rench Aid." (For loosening rusty nuts, bolts, cylinder heads, etc.)
Mitchell-Bradford Chemical Co., 2446 Main St., Stratford, Conn. "Silco," "Witch-Dip," "Witch-Oil."
Never Rust Mfg. Co., 616 Standish Rd., Teaneck, N. J. "Ne-Ver-Rust."
Nox-Rust Chemical Corp., 2428 S. Halsted St., Chicago 8, Ill.
Oakite Products, Inc., 22 Thames St., New York 6, N. Y.
Parker Rust Proof Co., 2177 E. Milwaukee Ave., Detroit 11, Mich. "Bonderite," "Parco."
Pennsylvania Refining Co., Butler Savings & Trust Bldg., Butler, Pa. "Penn Drake."
Permatex Co., 1720 Ave. Y. Brooklyn 29, N. Y.
Petroleum Solvents Corp., 331 Madison Ave., New York 17, N. Y. "Siloo Penetrant."
Philadelphia Quartz Co., Ledger Bldg., Sixth & Chestnut Sts., Philadelphia 6, Pa. "Rusticon." (Preventing.)
Radiator Specialty Co., 1722 Dowd Rd., Charlotte 1, N. C. "Liquid Wrench." (For removing frozen joints, nuts, cylinder heads, tail pipes and mufflers.)
Regal Air Corp., 318 W. 39th St., New York 18, N. Y. "Re Glo."
Reliance Battery Products Co., 2211 S. Eighth St., Council Bluffs, Iowa. "Penetro 1000."
Rossaul Co., 170 Fifth Ave., New York 10, N. Y. "Rossaul Dexoide."
Rusticide Products Co., 3125 Perkins Ave., Cleveland, Ohio. "Rust-I-Cide."
Shell Oil Co., 50 W. 50th St., New York 20, N. Y. "Ensis."
Skybryte Co., 3125 Perkins Ave., Cleveland 14, Ohio. "Rust-Tox." (Preventing.)
Socony-Vacuum Corp., 26 Broadway, New York 4, N. Y. "Mobilcote," "Mobil Rust-proofer."
Solrun Services, Inc., 49 N. Second St., Philadelphia 6, Pa. "Solusolv."
Sonneborn Sons. Inc., L., 88 Lexington Ave., New York 16, N. Y. "Amalie."
Speco, Inc., 7308 Associate Ave., Cleveland 9, Ohio. "Rustrem."
Standard Oil Co. (Indiana), 910 S. Michigan Ave., Chicago 80, Ill. "Stanorust."
Stay-Tite Products Co., 3107 Detroit Ave., Cleveland, Ohio. "Rustgo."
Steelcote Mfg. Co., 8418 Gratiot Ave., St. Louis 3, Mo.
Sure-Rite Products Corp., 2731 N. Sixth St., Philadelphia 33, Pa. (Rust solvent, for aluminum cylinder heats, etc.)
Temperature Equipment Corp., 4505 Euclid Ave., Cleveland 3, Ohio. "EHW." (Preventing.)
W. & W. Auto Finishes, Inc., United Bldg., Greenleaf St., Boston 15, Mass. "Rust-O-Fend."
Walker Mfg. Co. of Wis., Michigan & Hamilton Sts., Racine, Wis. "Super-Kwick." (For removing rusty exhaust systems.)
Wayne Chemical Products Co., Copeland Ave. & M. C. R. R., Detroit, Mich. "Protex."
Whiting Leather & Belting Co., 9 Murray St., New York 7, N. Y. "Whiting Rustvoid," "Whiting Rust Cutter."
Witco Chemical Co., 75 E. Wacker Drive, Chicago 1, Ill.

RUST PREVENTIVES, Cooling System

Aluminum Industries, Inc., 2438 Beekman St.,

Let **TEMSTART**

SOLVE YOUR COLD WEATHER OUTDOOR STORAGE PROBLEM

Automatically

- LOW COST
- SIMPLE INSTALLATION
- RUGGED CONSTRUCTION
- SAFE—NO FIRE HAZARD
- KEEPS UP BATTERY
- NATURAL HEATING
- NO ELECTRIC PLUG-INS

TEMSTART will AUTOMATICALLY keep the ENGINE WARM in its NATURAL way by periodically starting and running it at a speed sufficient to circulate the water, build up oil pressure, and charge the battery. When the water temperature reaches a pre-set "HIGH"—the control will STOP the engine until the temperature reaches a pre-set "LOW."

These cycles of warm-up running will vary with the weather temperature and the protection the engine has but will not run many minutes per hour under normal conditions.

DOUBLE PROTECTION is provided if the engine should fail to start. A circuit is provided in the control for an audible or visual alarm, and a secondary alarm temperature switch to give an alarm before the water can freeze.

This LOW COST economical unit is easily installed by any mechanic or electrician on most types of vehicles in less than half a day. No water connections to make — simple wiring hookup — does not affect the normal operation in any way — perfectly safe — no fire hazard.

TEMSTART was developed during the war to keep power plants from freezing and ready for instant use in cold climates and had to operate dependably under conditions of 68° below zero. After proven results from two years of testing in the field on buses and trucks, TEMSTART is now available. ORDER NOW to protect your fleet for Winter.

Write or Wire for Complete Information

SYNCHRO-START PRODUCTS, INC.
MFRS. OF
Automatic Engine Control Equipment
SINCE 1932
1046 WEST FULLERTON AVENUE, CHICAGO 14, ILL.

2 3 10-50

Perry *Cooling System* Filter

PAT. PENDING

Passes ALLIED VAN LINES test!

Says Richard L. LaBelle

Vice President
LaBelle Safety Storage & Moving Co.
Agent of
ALLIED VAN LINES, INC.

"... we conducted rigorous field tests with Perry Cooling System Filters installed in two of our long-distance tractor trucks (K7 International and 1½-2 ton Chevrolet) ... results at the first 1000 mile check were excellent and this performance continued throughout the test. Savings in maintenance expense, lost road time and even gas mileage were absolutely remarkable. Cooling system troubles were eliminated entirely. Perry Filters are now installed throughout our fleet!"

Even Heat Dissipation Cures "Hot Spots"—Main Cause of Burned Valves, Cracked Blocks, Scored Pistons ... The Perry Filter assures a *constantly clean cooling system* the year around and prevents scale insulation of block, water jackets and radiator—main cause of expensive engine damage. Softens coolant, prevents corrosion—effects substantial savings for fleet operators. Mail coupon today!

Pays for Itself!

The cost of ONE radiator cleaning and rodding job will more than pay for the Perry Cooling System Filter and installation. Your only upkeep cost is periodic change of inexpensive replacement element.

SPARK-O-LINER CORPORATION
601 11th Avenue South, Minneapolis 4, Minn.

Gentlemen: Please send free descriptive literature. I am interested in Model TB (illustrated) for trucks and buses 1½ ton and over ☐
in Model A for passenger cars, trucks and buses to 1½ ton ☐

Name .....

Company .....

Address .....

City ..... State .....

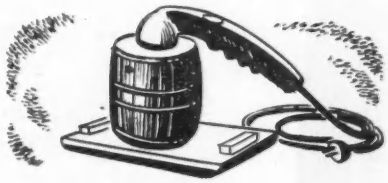
2241-1

RUST PREVENTIVES, Cooling System—cont.

Cincinnati 25, Ohio. "Permite Rust-Stop."
Barton Products Co., 2765 St. Mary's Court, Chicago 47, Ill.
Bell Co., 411 N. Wolcott Ave., Chicago 22, Ill.
Bowes "Seal Fast" Corp., 228 N. Pine St., Indianapolis 7, Ind.
Butler Eng. Co., 2610 Russeau St., New Orleans 11, La. (Butler De-Scaler.)
Cannon Chemical Co., 181 Portland St., Cambridge 41, Mass. "Rustbuster."
Champion Products, Inc., P. O. Box 291, Stephenville, Tex.
Chicago Hydraulic Oil Co., 11618 S. Front St., Chicago 28, Ill. "Rustgon."
Commercial Solvents Corp., 17 E. 42nd St., New York 17, N. Y. "Nor'Way Anti-Rust."
Drew & Co., E. F., 15 E. 26th St., New York, N. Y. "Ameroid."
du Pont de Nemours & Co., E. I., Chemical Specialties Div., du Pont Bldg., Wilmington 98, Del. "No. 7."
Esso Standard Oil Co., 15 W. 51st St., New York 19, N. Y.
Floz-on Mfg. Co., Box 8566, Pittsburgh 20, Pa.
Hollingshead Corp., R. M., 840 Cooper St., Camden, N. J. "Whiz."
Homestead Valve Mfg. Co. (Hypressure Jenny Div.), Narrows Run Rd., Corapolis, Pa. "Hypressure Jenny."
Hood Refining Co., 21 N. Hamilton Ave., Greensburg, Pa.
Kelite Products, Inc., Box 2917 Terminal Annex, Los Angeles 54, Calif.
Kerkling & Co., 12270 Montague St., Pacoima, Calif. "K & W."
Mac's Super Gloss Co., 6040 N. Figueroa St., Los Angeles 42, Calif.
Magnus Chemical Co., 185 South Ave., Garwood, N. J.
Mirrorlike Mfg. Co., 36th St. & Queens Blvd., Long Island City, N. Y.
Motor Kool Products Co., 505 Buttles Ave., Columbus 8, Ohio. "M-K Koolrite," "M-K Rustrite."
National Aluminate Corp., 6216 W. 66th Place, Chicago 38, Ill. "Nalco," "PH7."
National Carbon Co., 30 E. 42nd St., New York 17, N. Y. "Rustone."
Park Chemical Co., Military & Vancouver Aves., Detroit 4, Mich. "Parko."
Permatex Co., 1720 Ave. Y, Brooklyn 29, N. Y.
Permo Products Co., 1629 Platte St., Denver 2, Colo.
Petroleum Solvents Corp., 331 Madison Ave., New York 17, N. Y. "Siloo."
Radiator Specialty Co., 1722 Dowd Rd., Charlotte 1, N. C. "Anti Rust."
Rust Master Chemical Corp., 50 Creighton St., Boston, Mass.
Service Supply Co., 1115 Seventh St., Denver 2, Colo. "Rusgo."
Sinclair Refining Co., 630 Fifth Ave., New York, N. Y.
Socony-Vacuum Oil Co., 26 Broadway, New York 4, N. Y. "Mobil Hydrotone."
Speco, Inc., 7308 Associate Ave., Cleveland 9, Ohio. "Rad-Glo."
Sun Oil Co., 1608 Walnut St., Philadelphia 3, Pa. "Sunoco."
Sure-Rite Products Corp., 2731 N. Sixth St., Philadelphia 33, Pa.
Tumbler Laboratories, J. A., 423 S. Hanover St., Baltimore 1, Md.
Turco Products, Inc., 6135 S. Central Ave., Los Angeles 1, Calif. "Turoc Radox."
U. S. Chemical & Supply Co., 1424 McGee St., Kansas City 6, Mo. "Z-4."
Universal Chemists, 107 Northampton St., Boston, Mass. "Rust-Chek."
V-O Mfg. Co., 13245 Sherman Way, Hollywood, Calif.
Warner-Patterson Co., 920 S. Michigan Ave., Chicago 5, Ill.
Watts-Wagner Co., 123 W. 64th St., New York 23, N. Y. "Rust-Ex."
Wilco Co., 4425 Bandini Blvd., Los Angeles 23, Calif.
"X" Laboratories, Inc., 25 W. 45th St., New York 19, N. Y.

SANDERS, Portable Electric

Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa. "Sioux."
Aro Equipment Corp., Bryan, Ohio.
Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.
Bradford Machine Tool Co., 657 Evans St., Cincinnati 4, Ohio. "Metalmaster."



Chicago Pneumatic Tool Co., 6 E. 44th St., New York, N. Y. "Hicycle."
Clarke Sanding Machine Co., 30 E. Clay Ave., Muskegon, Mich.
Detroit Surfacing Machine Co., 7433 W. Davison St., Detroit 4, Mich. "Easy." (Reciprocating.)
Dremel Mfg. Co., 2420 18th St., Racine, Wis. "Motor-Sander."
Independent Pneumatic Tool Co., 175 State St., Aurora, Ill. "Thor."
Lee Co., K. O., Congress at First Ave., S. E., Aberdeen, S. D.
Millers Falls Co., Greenfield, Mass.
Milwaukee Electric Tool Co., 5316 W. State St., Milwaukee 8, Wis.
Nedco Co., 87 Rumford Ave., Waltham, Mass.
Portable Elect. Tools, Inc., 255 W. 79th St., Chicago 20, Ill.
Porter-Cable Machine Co., 1714 N. Salina St., Syracuse 8, N. Y. "Guild." (Bel-type.)
Rotor Tool Co., 17325 Euclid Ave., Cleveland 12, Ohio.
Skilsaw, Inc., 5033 Elston Ave., Chicago 30, Ill. "SkilSander." (Belt and disc.)
Stanley Electric Tools, Div. of Stanley Works, 480 Myrtle Ave., New Britain, Conn.

Take it easy....

WITH THE NEW DRUM Safety JACK

SPOT IT—under any axle, from any angle.

WITH SWIVEL ACTION

Do tire, brake and bearing jobs faster—without breaking your back or crawling under trucks. This heavy-duty jack works anywhere—under any wheel. One man does two men's work with a DRUM *Safety JACK*.

SWING IT—Bring dollies into position for removing wheels without lifting.

LEVEL IT—Pull wheels easily without damage to bearings or seals.

Use the DRUM *Safety* JACK for dual wheels, single wheels, or as a floor jack.

● QUICKER
● SAFER
● LIGHTER

DRUM SAFETY JACK

DRUM JACK CORPORATION
Subsidiary of The Cleveland Pneumatic Tool Company
3769 EAST 77th STREET • CLEVELAND 5, OHIO, U.S.A.

We would like to know more about the DRUM *Safety* JACK.

Company _____

Address _____ *City* _____

2034-50

Best connection for fast service on fine parts

Your NAPA Jobber is a Good Man to Know!

Once you've acquainted your NAPA Jobber with your vehicles and their requirements, *one phone call* connects you with the fastest, most comprehensive parts service available.

From his own stocks, your NAPA Jobber can meet the vast majority of your normal parts requirements —for cars, trucks and buses of practically any make.

In emergencies involving hard-to-get parts, your NAPA Jobber can generally give overnight service or better by drawing on master stocks in the nearby NAPA Warehouse.

The famous lines, shown below, are specified by vehicle manufacturers in many cases as original equipment. In every case, *all* NAPA lines meet the highest standards of quality.

Check up now on the advantages of doing business with your NAPA Jobber, and the nation's largest independent parts organization.

Ask your NAPA Jobber to explain how he can save you time, simplify your parts problems and help keep your trucks rolling on schedule.

NATIONAL AUTOMOTIVE PARTS ASSOCIATION • DETROIT 1, MICHIGAN

3820-1

N·A·P·A *is the largest Independent Parts Organization in the Industry!*

N·A·P·A National Automotive Parts Association — Assurance of Quality

American Brakeblok — BRAKE LINING • CLUTCH FACINGS • FAN BELTS • RADIATOR HOSE
Allied WISCONSIN — PISTONS • SLEEVES
UNITED PARTS — FUEL PUMP, HYDRAULIC BRAKE, SPEEDOMETER and BRAKE CABLES
Monmouth — ENGINE BEARINGS, CLUTCH PLATES & PARTS, CHASSIS PARTS
STANDARD — GREASE RETAINERS
Allied GRAPHO — WATER PUMPS, PARTS • PACKING
BROWN LIPE — GEAR BOXES
RARITAN — ROLLER BEARINGS
Buffalo — MUFFLERS
BRIGGS — SHOCK ABSORBERS
Allied PRECISION — PISTON PINS
Allied A.P.C. — VALVES
ECHLIN — IGNITION PARTS
MicroTest — GEARS • AXLE SHAFTS
BALKAMP — PARTS FOR FORD, CHEVROLET • PLYMOUTH AND ALL POPULAR CARS
PURITAN — BRAKE FLUID, SHOCK ABSORBER OIL, FLUSHING FLUID, GASKA SEALS
Allied RAYMOND — VALVE SPRINGS
ZOLLNER — PISTON EQUIPMENT
BUFFALO — FIRE EXTINGUISHERS
DETROIT — UNIVERSAL JOINTS
DUCKWORTH — TIMING CHAINS
TRICO — VACUUM OPERATED SAFETY PRODUCTS
Thomson — THERMOSTATS
CELORON — TIMING GEARS
DITTMER — TRANSMISSION GEARS
MARTIN-SENOUR — AUTOMOTIVE FINISHES
Belden — WIRE AND CABLE
New Britain — HAND TOOLS
FEDERAL — BALL BEARINGS
Spicer — UNIVERSAL JOINTS

SANDERS, Portable Electric—cont.

Sterling Tool Products Co., 1340 N. Milwaukee St., Chicago 22, Ill.
Syntron Co., 495 N. Lexington Ave., Homer City, Pa.
United States Electrical Tool Co., 1050 Findlay St., Cincinnati 14, Ohio. "U. S."
Van Dorn Electric Tools, Towson 4, Md.

SANDERS, Portable Pneumatic

Aro Equipment Corp., Bryan, Ohio.
Buckeye Tools Corp., 29 W. Apple St., Dayton 1, Ohio.
Chicago Pneumatic Tool Co., 6 E. 44th St., New York, N. Y. "CP."
Independent Pneumatic Tool Co., 175 State St., Aurora, Ill. "Thor."
Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y.
Milwaukee Electric Tool Co., 5316 State St., Milwaukee 8, Wis. "Sand-All."
National Air Sander, Inc., 821 Kishwaukee St., Rockford, Ill. "Mity-Midget."
Rotor Tool Co., 17325 Euclid Ave., Cleveland 12, Ohio.
Schramm, Inc., Virginia & Garfield Aves., West Chester, Pa.
Sterling Tool Products Co., 1340 N. Milwaukee St., Chicago 22, Ill. "Sterling Speed Bloc."
Sundstrand Machine Tool Co., 2531 11th St., Rockford, Ill. "Superior."
Watervliet Tool Co., 1349 Broadway, Albany 1, N. Y.

SANDERS, Road

Highway Safety Appliances, Inc., 1381 Marshall Ave., St. Paul 4, Minn. "Elston." (Electric for truck and bus.)
Lintern Corp., 60 Lincoln Ave., Berea, Ohio. (Electric, for truck and bus.)

SANDPAPER

Armour Sandpaper Works, 1355 W. 31st St., Chicago, Ill. "Alundum," "Crystolon."
Behr-Manning Corp., Troy, N. Y. "Adalox," "Durite," "Metalite," "Speed-Wet Durite."
Carborundum Co., Buffalo Ave., Niagara Falls, N. Y. "Aloxite."
Clover Mfg. Co., Norwalk, Conn.
Mid-West Abrasive Co., 510 S. Washington St., Owosso, Mich.
Minnesota Mining & Mfg. Co., 900 Fauquier St., St. Paul 6, Minn. "Three-M-Ite," "Wetordry Tri-Mite."

Anthes
The First Line of Safety

FOCO FLAR

Top quality at a new low price is offered in the FOCO FLAR. Three flares, featuring Anthes No. 300 Trilite Reflectors, are carried in a sturdy, theft-proof bracket. Truly a quality set, yet it sells at the lowest price available today. The newest member of the ever-growing Anthes family of items. Check the quality! Double check the price!!

Type FF
Highest Quality
Lowest Price

Anthes for Complete Safety

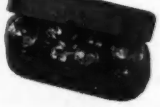
V3 MOTOFLAR
Three oil flares, with exclusive Anthes retractable burners, mounted on bracket.

1275-S
5" Mirror Head. Patented Anthes 1201 strut arm reduces vibration.

S-433
Fusee Case with 3—15-minute spike fusees and 3 legal size red warning flags.

No. 610
Flexible mounting clearance light.

PR3
3" Truck Reflector. Exclusive, approved Anthes No. 300 Trilite lens. Rugged. Quality.



B-101
I.C.C. Bulb and Fuse Kit.

Safety EQUIPMENT
ANTHES FORCE OILER CO., FORT MADISON, IOWA

SAWS, Band

Beach Mfg. Co., Mill & High Sts., Montrose, Pa.
Beebe Bros., 2724 Sixth Ave., S. Seattle 4, Wash. "Little Cut-Up." (Jig, for brake lining cutting.)
Boice-Crane Co., 930 W. Central Ave., Toledo 6, Ohio.
Bolinders Co., 33 Rector St., New York 6, N. Y.
Clemson Bros., 22 Cottage St., Middletown, N. Y. "Star."
Colladay Machine Works, 125 E. Luray St., Philadelphia 20, Pa.
Do All Co., 254 N. Laurel Ave., Des Plaines, Ill. "Do All Zephyr." (Contour.)
Grob Bros., Crafton, Wis. (Die.)
Johnson Mfg. Co., 1013 Barnes St., Albion, Mich.
Jones Superior Machine Co., 1258 W. North Ave., Chicago, Ill.
Laidlaw, Inc., Wm., 7 Greenwich St., Belmont, N. Y.
Machine Tool Div., Kalamazoo Tank & Silo Co., 500 Harrison St., Kalamazoo, Mich. "Kalamazoo."
Moak Machine & Tool Co., 2547 Connor St., Port Huron, Mich.
Miller & Crowningshield, Swamp Rd., Greenfield, Mass. (Sole distributors, DoAll Co., 254 N. Laurel Ave., Des Plaines, Ill.)
Moak Machine & Tool Co., 2547 Connor St., Port Huron, Mich.
Porter Machinery Co., C. O., 666 Front Ave., N. W., Grand Rapids, Mich.
Tannewitz Works, 315 Front Ave., N. W., Grand Rapids 4, Mich.
Walker-Turner Div., Kearney & Trecker Corp., 639 South Ave., Plainfield, N. J.
Wallace & Co., J. D., 134 S. California Ave., Chicago, Ill.
Wells Mfg. Corp., E. on Highway M-60, Three Rivers, Mich.
Yates-American Machine Co., Beloit, Wis.

SAWS, Circular

Beach Mfg. Co., Mill & High Sts., Montrose, Pa.
Boice-Crane Co., 930 W. Central Ave., Toledo 6, Ohio.
Bolinders Co., 33 Rector St., New York 6, N. Y.
De Walt Products Corp., Fountain Ave., Lancaster, Pa.
Espen-Lucas Machine Works, Front St. & Girard Ave., Philadelphia 23, Pa.
Greenlee Bros. & Co., 2100 12th St., Rockford, Ill.
Hermance Machine Co., 178 Campbell St., Williamsport 19, Pa.
Jones Superior Machine Co., 1258 W. North Ave., Chicago, Ill.
Loma Machine Mfg. Co., 580 Fifth Ave., New York 19, N. Y.
Moak Machine & Tool Co., 2547 Connor St., Port Huron, Mich.
Power & Co., L., 2810 Oakford St., Philadelphia 46, Pa.
Richards Co., J. A., 903 N. Pitcher St., Kalamazoo 13F, Mich.
Tannewitz Works, 315 Front Ave., N. W., Grand Rapids 4, Mich.
Wallace & Co., J. D., 134 S. California Ave., Chicago, Ill.
Yates-American Machine Co., Beloit, Wis.

SAWS, Portable Electric

Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.
Bradford Machine Tool Co., 657 Evans St., Cincinnati 4, Ohio. "Metalmaster."
Dremel Mfg. Co., 2420 18th St., Racine, Wis. "Moto-Saw."

3830-50

SILV-O-LITE *Presents-*

DUALOY*

THE BI-METALLIC MOLECULAR BONDED PISTON

FORTIFIES THE TOP RING-GROOVE AGAINST EXCESSIVE WEAR

Prevents Ring Breakage . . .

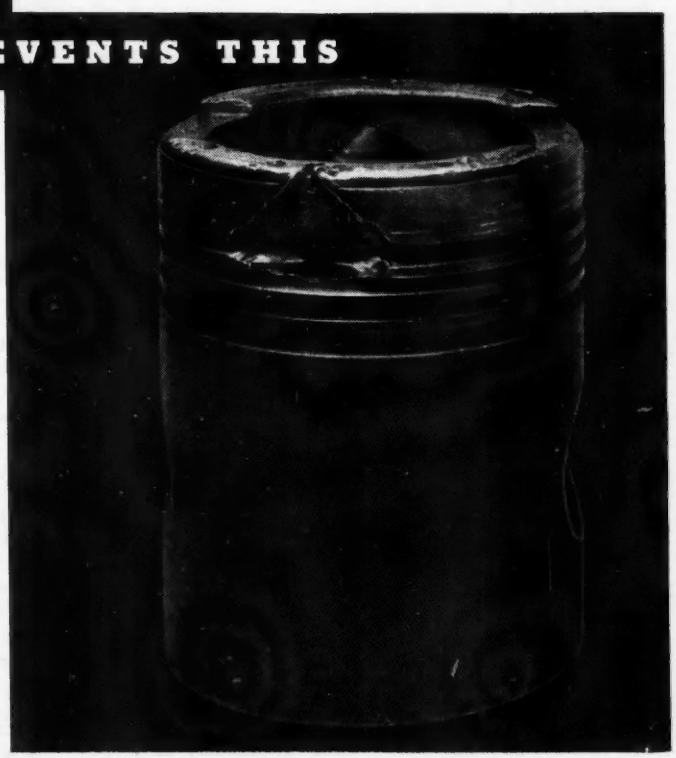
Reduces Operating Costs.

THIS IS WHAT DUALOY* PISTONS *will do for you . . .*

1. **Eliminate** excessive top ring-groove wear.
2. **Protect** top ring installations.
3. **Add** many ton-miles to your **motor life.**
4. **Save** costly **overhauls** and **lay-up time** that are due to heavy duty **piston failure.**

*Trade Mark Registered.
The manufacturers of Silv-o-lite have been licensed by Fairchild Engine & Airplane Corporation to use the Al-Fin process in the manufacture of bi-metallic molecular bonded pistons.

DUALOY PREVENTS THIS



DUALOY* PISTONS use an entirely new principle to correct the **causes** of top ring-groove failures. No Inserts, no machining—but a complete integrated piston that has an area of built-in armor plate, molecularly bonded to the body of the piston to provide a loading area for detonating shock far beyond the pressures involved.

DUALOY* PISTONS provide "Ni-resist" bearing surfaces where the strength of an austenitic iron is needed, and aluminum alloy body where heat dissipation and weight saving are factors.

The illustration at top shows DUALOY* patented construction with the area of built-in armor. The lower photograph graphically illustrates the type of failure experienced in conventional heavy-duty construction.

BUY DUALOY* for longer piston life.

Better Pistons Since 1922

Manufactured by

UNITED ENGINE AND MACHINE COMPANY

310 PREDA STREET • SAN LEANDRO, CALIFORNIA

1841-1

SAWS, Portable Electric—cont.

Forsberg Mfg. Co., 125 Sea View Ave., Bridgeport, Conn. "Whiz-Saw."
Independent Pneumatic Tool Co., 175 State St., Aurora, Ill. "Thor."
Kett Tool Co., 5 E. Third St., Cincinnati 2, Ohio. (Attachment, for use with portable electric drill.)
Lipe-Rollway Corp., 806 Emerson Ave., Syracuse 4, N. Y. "Hand-I-Hack." (Hack.)
Louisville Electric Mfg. Co., 3008 Magazine Sts., Louisville, Ky. "Pioneer." (Hack.)
Mid-States Equipment Corp., 2429 S. Michigan Ave., Chicago 16, Ill. "Mid-State Saw-Gun." (Attachment, for sawing or filing.)
Porter-Cable Machine Co., 1714 N. Salina St., Syracuse 8, N. Y. "Guild," "Speedmatic."
Skilsaw, Inc., 6033 Elston Ave., Chicago 30, Ill.
Speedway Mfg. Co., 1834 S. 52nd Ave., Cicero 30, Ill.
Stackhouse, E. H., 219 N. 63rd St., Philadelphia 39, Pa. (Attachment, for sawing and filing.)
Stanley Electric Tools, Div. of Stanley Works, 480 Myrtle Ave., New Britain, Conn.
United States Electrical Tool Co., 1050 Findlay St., Cincinnati 14, Ohio.
Wyzenbeek & Staff, Inc., 836 W. Hubbard St., Chicago 22, Ill. "Wyco."

SAWS, Portable Pneumatic

Aro Equipment Corp., Bryan, Ohio.

SAWS, Power Hack

Champion Blower & Forge Co., Harrisburg Ave. & Charlotte St., Lancaster, Pa.

HI-TEMP
TRADE MARK
Heat Resisting
VALVE INSIDES AND CAPS

Solves Air Pressure Maintenance Wherever Tire Heat Is a Problem

Now you can stop road delays, costly tire repairs, and increase tire mileage. *Under abnormal hot tire temperatures, even up to 300° F. and more, the newly developed, heat-resisting air seal keeps Dill HI-TEMP tire valve insides and caps airtight, without sticking.*

Tire engineers and fleet operators, everywhere, are acclaiming this new Dill development. Wherever tire heat is a problem, you'll end tire pressure maintenance troubles by equipping your tires with the new Dill HI-TEMPS.

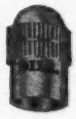
Save time and money this sure way. Change to Dill HI-TEMPS, today. Your wholesaler, tire or oil company can supply you, now.

DILL "HI-TEMP" VALVE INSIDES No. 100-AH

New Dill special heat-resisting rubber gasket in cup and on barrel.

No. 100-AW

Lead gasket on barrel. New Dill special heat-resisting gasket in cup.



DILL "HI-TEMP" VALVE CAP No. 632 Dome Type

Heavy duty cap with swivel gasket of new Dill special heat-resisting rubber.

DILL "HI-TEMP" VALVE CAP No. 631 Hexagon Type

Lead gasket mounted over brass sleeve.

ASK FOR DILL "HI-TEMP" IN THE NEW ORANGE AND YELLOW CARTON

THE DILL MANUFACTURING CO.
700 East 82nd St. • Cleveland 3, Ohio
Branch — 1011 S. Flower Street, Los Angeles 15, California

Covel Mfg. Co., Graham Ave., Benton Harbor, Mich. "Excel."
Maquoketa Co., Clark & Maple Sts., Maquoketa, Iowa. "Sawmore."
Peerless Machine Co., 1600 Junction Ave., Racine, Wis.
Racine Tool & Machine Co., State St., Racine, Wis.
St. Louis Tool Co., 6100 Prescott St., St. Louis 15, Mo. "S-L."

SCALES, Truck Load Indicating

Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md. "Loadometer."

SCALES, Weighing (Dial Type)

Chatillon & Sons, John, 85-93 Cliff St., New York 7, N. Y.
Detecto Scales, Inc., Div. Jacobs Bros. Co., 540 Park Ave., Brooklyn, N. Y. "Detecto-Gram."
Fairbanks, Morse & Co., 600 S. Michigan Ave., Chicago 5, Ill.
Howe Scale Co., 3 Scale Ave., Rutland, Vt.
Toledo Scale Co., Telegraph Rd., Toledo 12, Ohio.

SCALES, Weighing (Platform Type)

American Scale Co., 919 Baltimore Ave., Kansas City 6, Mo.
Bonded Scale Co., 2170 S. Third St., Columbus, Ohio.
Buffalo Scale Co., 1200 Niagara St., Buffalo 13, N. Y.
Chatillon & Sons, John, 85 Cliff St., New York 7, N. Y.
Detecto Scales, Inc., Div. Jacobs Bros. Co., 540 Park Ave., Brooklyn, N. Y. "Detecto-Gram."
Exact Weight Scale Co., 944 W. Fifth Ave., Columbus 12, Ohio.
Fairbanks, Morse & Co., 600 S. Michigan Ave., Chicago 5, Ill.
Howe Scale Co., 3 Scale Ave., Rutland, Vt.
Toledo Scale Co., Telegraph Rd., Toledo 12, Ohio.

SCRAPERS, Bearing

Anderson Bros. Mfg. Co., 1907 Kishwaukee St., Rockford, Ill.
Cornwell Quality Tools Co., Mogadore, Ohio.
Millers Falls Co., Greenfield, Mass.
Osborne & Co., C. S., Jersey & Second Sts., Harrison, N. J.

SCRAPERS, Carbon

Aircraft Specialties, Inc., Howard & Higley Sts., Lapeer, Mich.
Atmars Tool Co., 2411 Chestnut St., Oakland 7, Calif. "Katz-Klaw."
Calvan Machine Products, Inc., 809 S. Water St., Jackson, Mich.
Cornwell Quality Tools Co., Mogadore, Ohio.
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill. "Duro-Chrome."
Hunt Mfg. Co., Geo. L., 1030 Wisconsin Ave., Boscobel, Wis.
Ken Tool Mfg. Co., 768 E. North St., Akron, Ohio.
Mechanic's Tool & Forge Co., Howard St., Sabina 1, Ohio. "Mac."
Master Signal Co., 2465 W. Grand River Ave., Howell, Mich. (Flexible.)
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
New Britain Machine Co., 140 Chestnut St., New Britain, Conn.
Osborne & Co., C. S., Jersey & Second Sts., Harrison, N. J.
P & C Hand Forged Tool Co., Box G, Milwaukee, Ore.
Peterson Co., Paul, 1313 W. Randolph St., Chicago 7, Ill. "Webco."
Plomb Tool Co., 2209 Sante Fe Ave., Los Angeles 54, Calif. "Proto."
Quality Tools Corp., New Wilmington, Pa. "Oldforge."
Rinck-McIlwaine, Inc., 16 Hudson St., New York 13, N. Y. "Rimac."
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. "Blue Point."
Wilde Drop Forge & Tool Co., 2936 Fairmount Ave., Kansas City, Mo.
Zoerman-Clark Mfg. Co., Jackson, Mich.

SCREENS, Silk Printing (For Trucks)

Fowler Co., H. B., 250 Conestoga Rd., Wayne, Pa.

SCREW DRIVERS (Portable Electric)

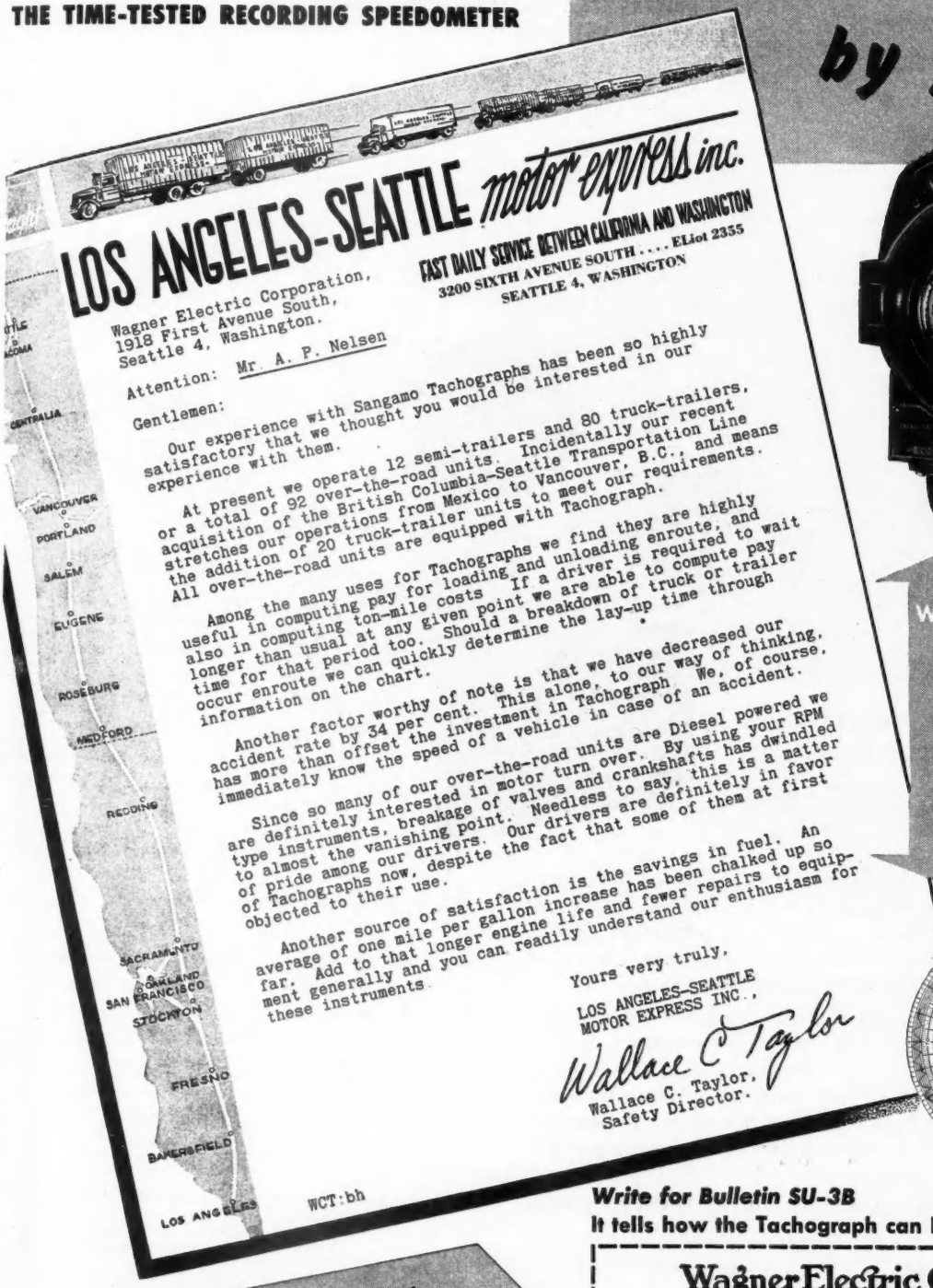
Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.

1840-50

TACHOGRAPH

THE TIME-TESTED RECORDING SPEEDOMETER

Decreased Our Accident Rate by 34%



LOS ANGELES-SEATTLE motor express inc.

FAST DAILY SERVICE BETWEEN CALIFORNIA AND WASHINGTON
3200 SIXTH AVENUE SOUTH .... ELiot 2355
SEATTLE 4, WASHINGTON

Wagner Electric Corporation,
1918 First Avenue South,
Seattle 4, Washington.

Attention: Mr. A. P. Nelsen

Gentlemen:

Our experience with Sangamo Tachographs has been so highly satisfactory that we thought you would be interested in our experience with them.

At present we operate 12 semi-trailers and 80 truck-trailers, or a total of 92 over-the-road units. Incidentally our recent acquisition of the British Columbia-Seattle Transportation Line stretches our operations from Mexico to Vancouver, B.C., and means the addition of 20 truck-trailer units to meet our requirements. All over-the-road units are equipped with Tachograph.

Among the many uses for Tachographs we find they are highly useful in computing pay for loading and unloading enroute, and also in computing ton-mile costs. If a driver is required to wait longer than usual at any given point we are able to compute pay time for that period too. Should a breakdown of truck or trailer occur enroute we can quickly determine the lay-up time through information on the chart.

Another factor worthy of note is that we have decreased our accident rate by 34 per cent. This alone, to our way of thinking, has more than offset the investment in Tachograph. We, of course, immediately know the speed of a vehicle in case of an accident.

Since so many of our over-the-road units are Diesel powered we are definitely interested in motor turn over. By using your RPM type instruments, breakage of valves and crankshafts has dwindled to almost the vanishing point. Needless to say, this is a matter of pride among our drivers. Our drivers are definitely in favor of Tachographs now, despite the fact that some of them at first objected to their use.

Another source of satisfaction is the savings in fuel. An average of one mile per gallon increase has been chalked up so far. Add to that longer engine life and fewer repairs to equipment generally and you can readily understand our enthusiasm for these instruments.

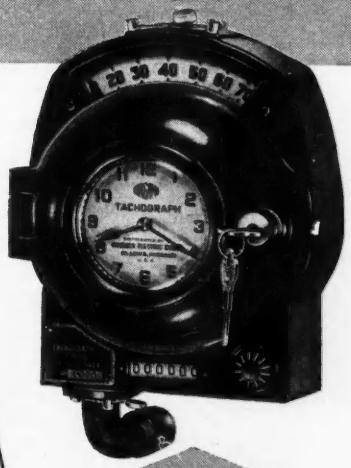
Yours very truly,

LOS ANGELES-SEATTLE
MOTOR EXPRESS INC.,

Wallace C. Taylor

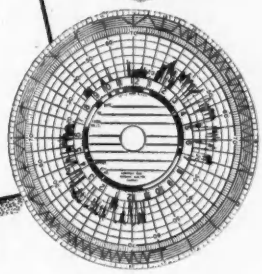
Wallace C. Taylor,
Safety Director.

WCT:bh



RED LIGHT WARNING WHEN SET SPEED IS EXCEEDED

CHART RECORDS ALL MOVEMENTS



Write for Bulletin SU-3B

It tells how the Tachograph can help *you*.

Wagner Electric Corporation
6476 PLYMOUTH AVE., ST. LOUIS 14, MO.
Please send a copy of Bulletin SU-3B.

Name and Position _____

Company _____

Address _____

City _____ State _____

We operate _____ Vehicles
(NUMBER)

S49-6

DISTRIBUTED BY
Wagner
Electric Corporation

2390-1

SCREW DRIVERS (Portable Electric)—cont.

Chicago Pneumatic Tool Co., 6 E. 44th St., New York, N. Y. "Hicycle."
Cincinnati Electrical Tool Co., 2699 Madison Rd., Cincinnati 8, Ohio.
Independent Pneumatic Tool Co., 175 State St., Aurora, Ill. "Thor."
Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y.
Millers Falls Co., Greenfield, Mass.
Milwaukee Electric Tool Co., 5316 W. State St., Milwaukee 8, Wis.
Skilsaw, Inc., 5033 Elston Ave., Chicago 30, Ill. "Ski Drivers."
Stanley Electric Tools, Div. of Stanley Works, 480 Myrtle St., New Britain, Conn.
United States Electrical Tool Co., 1050 Findlay St., Cincinnati 14, Ohio.
Van Dorn Electric Tools, Towson 4, Md. "Scrugun."

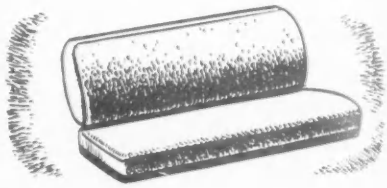
SCREW DRIVERS (Portable Pneumatic)

Aro Equipment Co., Bryan, Ohio.
Buckeye Tools Corp., 29 W. Apple St., Dayton 1, Ohio.
Chicago Pneumatic Tool Co., 6 E. 44th St., New York, N. Y.
Cleco Div. of Reed Roller Bit Co., 5125 Clinton Drive, Houston 1, Texas.
Independent Pneumatic Tool Co., 175 State St., Aurora, Ill. "Thor."
Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y.
Keller Tool Co., 1333 Fulton St., Grand Haven, Mich.

SEALS, Oil & Grease, See Retainers, Oil and Grease

SEATS, Bus

ACF-Brill Motors Co., 62nd St. & Woodland Ave., Philadelphia 42, Pa.
American Seating Co., Ninth St. & Broadway, Grand Rapids, Mich.
American Wicker Works, Inc., 3105 26th St., Minneapolis 6, Minn.
Amesbury Seat Mfg. Co., 200 S. River St., Ypsilanti, Mich.
Art Rattan Works, Inc., 167 Park Ave., E., Mansfield, Ohio.
Perma Products Co., 7001 Morgan Ave., Cleveland 4, Ohio.
Tropic-Aire, Inc., 4501 W. Augusta Blvd., Chicago 51, Ill.
Troy Sunshade Co., Troy, Ohio.
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.
Ionia Mfg. Co., 121 S. Dexter St., Ionia, Mich.



SEATS, Truck

(See also Cushions, Seat)

American Wicker Works, Inc., 3105 E. 26th St., Minneapolis, Minn.
Bostrom Mfg. Co., 133 W. Oregon St., Milwaukee 4, Wis. (Spring suspension.)
Detroit Harvester Co., Motor State Products Div., 103 S. River St., Ypsilanti, Mich. (Spring.)
Ionia Mfg. Co., 121 S. Dexter St., Ionia, Mich.
Milsco Mfg. Co., 2758 N. 33rd St., Milwaukee, Wis. (Foam rubber.)
Monroe Auto Equipment Co., 1426 E. First St., Monroe, Mich. (Spring suspension.)
Motor State Products Co., Ypsilanti, Mich. (Spring.)
Perma Products Co., 7001 Morgan Ave., Cleveland 4, Ohio.
Troy Sunshade Co., Troy, Ohio.
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.

SEATS, Valve

Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa. "Sioux."
Dorman Products Inc., 1004 Sycamore St., Cincinnati 2, Ohio.
Eaton Mfg. Co., Saginaw Div., 9771 French Rd., Detroit, Mich.
Haynes Stellite Co., Kokomo, Ind.
Hub City Iron Co., 218 First Ave., S. W., Aberdeen, S. D.
Jambor Tool & Stamping Co., 3057 N. 30th St., Milwaukee 10, Wis. "Bull Dog."
Lee Co., K. O., Congress at First Ave., S. E. Aberdeen, S. D. "Knock Out."
Monmouth Products Co., 6545 Carnegie Ave., Cleveland 3, Ohio. "Monochrome."
Perfect Parts, Inc., 55 Amsterdam Ave., New York 23, N. Y.
Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio. "Thompson Duracrome."
Toledo Steel Products Co., 3300 Summit St., Toledo 11, Ohio. "Chrom-O-Loy;" "Toledo." (Cast Iron.)
Waterbury Tool, Div. of Vickers, Inc., 188 E. Aurora St., Waterbury 91, Conn.
Wausau Motor Parts Co., 1003 Harrison Blvd., Wausau, Wis. "Chieftain."
White Machine Works, 1401 Bellevue Ave., Eau Claire, Wis. "Superior."

SHAFTS, Propeller

(Shaft only; for universal joints—see Universal Joints)

Almetal Universal Joint Co., 1553 E. 55th St., Cleveland 3, Ohio.
Blood Brothers Machine Co., Div. Standard Steel Spring Co., Allegan, Mich. (For trucks.)
Detroit Bevel Gear Co., 8130 Jos. Campau Ave., Detroit 11, Mich.

FOR EMERGENCY VEHICLES . . .
THE NEW ARROW EMERGENCY KIT
WITH A MOTOR-DRIVEN FLASHER

Designed to meet the demand for a highly visible danger signal, the Arrow Emergency Kit is ideal for use on ambulances, fire equipment, police cars, snowplows, public utility emergency equipment . . . wherever there is a need for heavy duty, alternately flashing warning signals.

The Arrow Emergency Kit comes complete with a motor-driven flasher of our own design and construction. The flasher has been tested for over 50 hours' continuous operation. Made oversize for long life and rugged strength, it will easily carry twice its present load. A built-in line fuse protects the motor from overload. The Arrow Emergency Kit meets all S.A.E. specifications.

Be on the safe side of every emergency. Order from your wholesaler today!

safety after dark

ARROW

ARROW SAFETY DEVICE COMPANY
MOUNT HOLLY, NEW JERSEY

3830-50

BOWER BEARINGS ARE

SPHER-O-HONED

YOU'LL AGREE . . . THERE'S A BIG DIFFERENCE

Once you have used Bower Spher-O-Honed bearings you'll agree with the many who use them that here are truly outstanding bearings. They give consistently finer performance on every count. ★ Marked superiority is built into every Bower Spher-O-Honed bearing because of their basically different and greatly improved design—spherical roll-ends and flange surfaces, a large oil groove and higher cone flange—and because the most modern manufacturing technics are employed which produce micro-inch precision. ★ These are the significant advantages that explain the extra smoothness, longer life, and greater dependability of Bower Spher-O-Honed bearings . . . the big difference that makes them your best bearing buy.

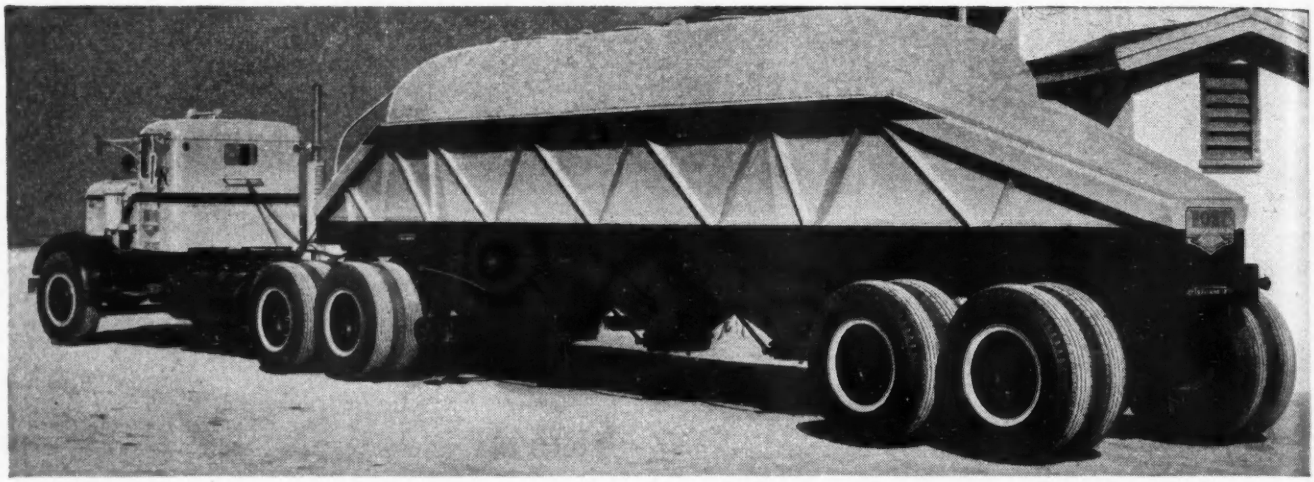
For more complete information, write for the new Bower engineering catalog.

BOWER ROLLER BEARING COMPANY • DETROIT 14, MICHIGAN

BOWER

ROLLER BEARINGS

1950-1

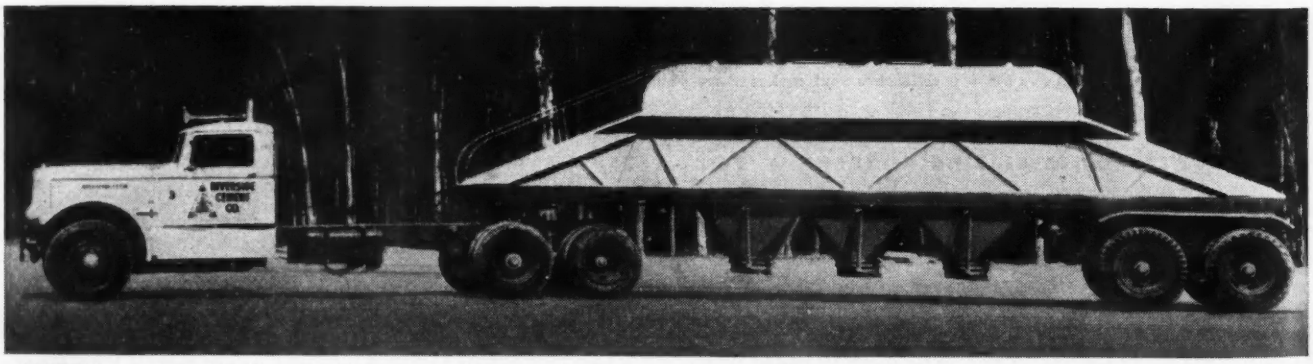


CEMENT—No sacks are needed when Post Transportation Company, Los Angeles, transports dry cement to distant construction projects over "corduroy" roads. Light weight, rugged *bulk haulers,* built of Kaiser Aluminum, do the job. Above is a 35-foot, 10,000-pound unit designed by Permanente Products' engineers and built by Mechanical Services, Inc., Pomona, California. Such units are paying for themselves through increased payload, reduced maintenance costs.

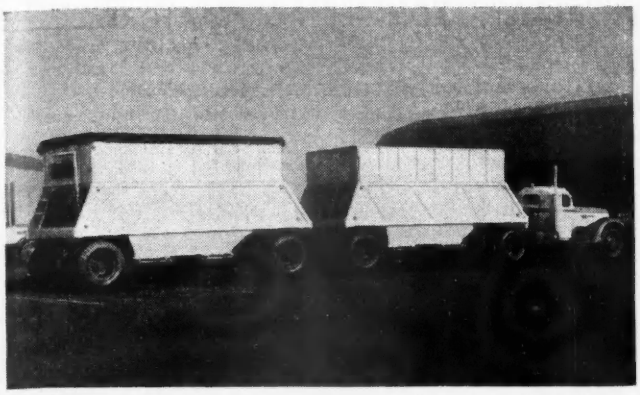
IF YOU CARRY BULK OR SACKED CARGO...

YOU CAN MAKE MORE MONEY WITH

FEED, GRAIN—No dirty, damaged or germ-carrying sacks are used when Triangle Grain Company, Los Angeles, delivers feed, barley and other grains in bulk haulers like this. Especially designed of Kaiser Aluminum, substantial weight savings were possible when Mechanical Services, Inc., Los Angeles, built frameless 35-foot units like these.



CEMENT—Riverside Cement Company, of Riverside, California, uses this 35-foot trailer, with an 800 cu. ft. capacity, to deliver bulk dry cement throughout Southern California. Use of Kaiser Aluminum has reduced the gross vehicle weight by 3,000 pounds of dead weight—and *added* 3,000 pounds of profitable payload!



EARTH—Direct Delivery Service, a subsidiary of Southern California Freight Lines, Los Angeles, uses trains of 20-foot aluminum bulk haulers like these to haul limit loads of diatamaceous earth insulation. Sold by Utility Trailer Company, Los Angeles, each train carries a payload of 45,000 pounds of this low density product—800 cu. ft. per unit, for a total of 1,600 cu. ft. Each train covers 752 miles a day on a rugged 24-hour a day, 7-day a week schedule!

GRAIN—This bulk grain carrier weighs 2,000 pounds less than an identical unit made of steel. Like all of the bulk haulers shown on these two pages, it was designed with the assistance of Permanente Products' Development and Engineering Division—to take advantage of the lightness, strength and versatility of Kaiser Aluminum. It was built by Aluminum Body Corporation, Vernon, California, for Goldsberry Farm Machinery Company, Ontario, California.

BULK HAULERS BUILT OF KAISER ALUMINUM!

More and more profit-conscious operators are switching to aluminum bulk haulers to carry free-flowing or semi-flowing solids. Bulk haulers bring them these cash advantages:

Many steps in handling and storing are cut. Only one man is needed to load and unload cargo. Customers save work and money with bulk deliveries. Deliveries can be made in wet weather. Cargo need never be touched by hand. Cost of sacks and sacking equipment is eliminated. Cargo losses through loose or damaged sacks are eliminated.

And when operators use bulk haulers built of light weight, high strength Kaiser Aluminum—they get even higher profits! For instance...

Kaiser Aluminum construction often eliminates more than 3,000 pounds of profit-robbing weight, without sacrificing strength. Which means an average of 7½ per cent to 10 per cent *extra* payload, plus lower maintenance costs.

In addition, bulk haulers made of Kaiser Aluminum will never be marred by ugly rust stains, will never need painting, will last many, many years!

All of the bulk haulers pictured here were designed and built of Kaiser Aluminum with the assistance of Permanente Products' Development and Engineering Division. During every phase of construction Permanente's engineers worked closely with the manufacturers to develop economical, reliable, light weight equipment.

If you'd like the same kind of help in developing bulk haulers to fit *your* needs, contact any Permanente Products' sales office. We'll be on the job for you immediately.

Permanente Metals

PRODUCER OF

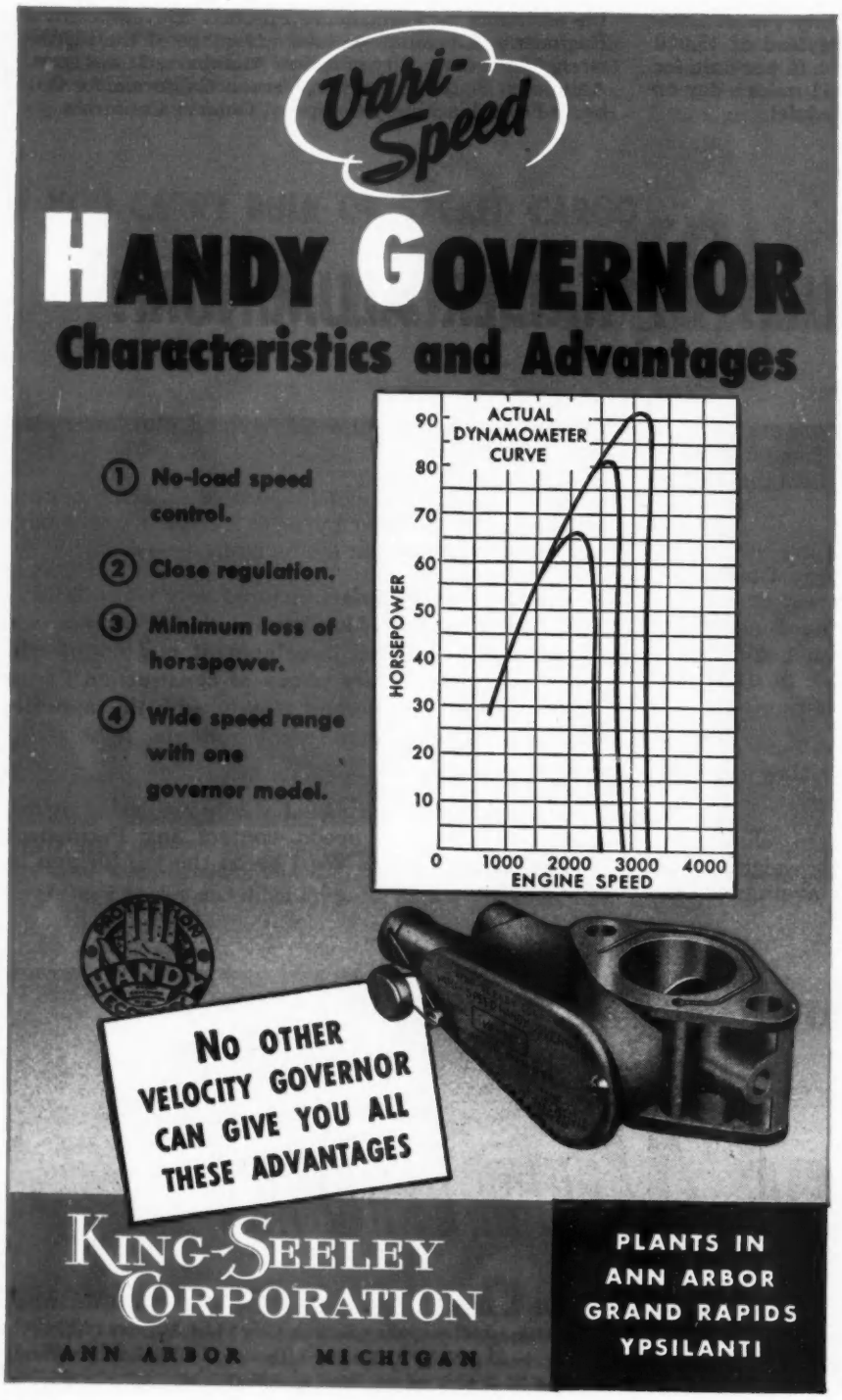
Kaiser Aluminum

SOLD BY PERMANENTE PRODUCTS COMPANY, KAISER BUILDING, OAKLAND 12, CALIF. . . . OFFICES IN: Atlanta Boston • Chicago • Cincinnati • Cleveland • Dallas • Denver • Detroit • Houston • Indianapolis • Kansas City • Los Angeles • Milwaukee Minneapolis • New York • Oakland • Philadelphia • Portland, Ore. • Rochester, N. Y. • Seattle • Spokane • St. Louis • Wichita
EXPORT OFFICE, OAKLAND, CALIFORNIA • WAREHOUSE DISTRIBUTORS IN PRINCIPAL CITIES

902-2

SHAFTS, Propeller—cont.

Dittmer Gear & Mfg. Corp., 193 Grand St., Lockport, N. Y.
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio. (Sole distributors to replacement trade, Lempco Automotive Inc., 2953 E. 55th St., Cleveland 4, Ohio.)
Mechanics Universal Joint Div., Borg-Warner Corp., 2020 Harrison Ave., Rockford, Ill.
Miller-Shelby Products Div., Michigan Steel Tube Products Co., 9450 Buffalo Blvd., Detroit 12, Mich.
Morse Chain Co. (Div. of Borg-Warner Corp.), 7601 Central Ave., Detroit 8, Mich. "Morflex."
Neapco Products, Inc., Pottstown, Pa.
Republic Gear Co., 2197 Beaufait Ave., Detroit 7, Mich.
Saginaw Steering Gear Div., General Motors Corp., Clinton & Hamilton Sts., Saginaw, Mich.
Spencer Mfg. Co., Spencer, Ohio.
Spicer Mfg. Div. of Dana Corp., 4100 Bennett Rd., Toledo 1, Ohio.
Steel and Tubes Div., Republic Steel Corp., 224 E. 131st St., Cleveland 8, Ohio.
Thompson Products, Inc., 2196 Clarkwood Rd., Cleveland 3, Ohio.
U. S. Axle Co., Water St., Pottstown, Pa.
Universal Products Co., 6455 Kingsley Ave., Dearborn, Mich.
Warner Automotive Parts Div., Borg-Warner Corp., S. Wayne St., Auburn, Ind.
York Axle & Forge Co., Loucks Mill Rd., York, Pa. "Bilt-Well;" "Foreman." (Sole distributors, Foreman, Inc., 2119 S. Wabash Ave., Chicago, Ill.



SHEARS, Portable Electric

Black & Decker Mfg. Co., 629 Pennsylvania Ave., Towson 4, Md.
SkilSaw, Inc., 5033 Elston Ave., Chicago 30, Ill. "SkilShear."
Stanley Electric Tools, Div. of Stanley Works, 480 Myrtle Ave., New Britain, Conn. "Stanley Unishear."
Van Dorn Electric Tools, Towson 4, Md. "Porto-Shear."

SHIMS, Axle Caster

Bear Mfg. Co., 21st St. & Fifth Ave., Rock Island, Ill.
Bee-Line Co., Box 569, Davenport, Iowa. (Bronze.)
Chief Alinement Corp., 440 13th St., Rock Island, Ill.
Loock & Co., R. J., 343 N. Gay St., Baltimore, Md. "Lightnin."

SHIMS, Brake Lining

Atlas Asbestos Co., North Wales, Pa.
Barrett Equipment Co., 2101 Cass Ave., St. Louis 6, Mo. (Fibre.)
Colt's Mfg. Co., 17 Van Dyke Ave., Hartford, Conn. "Coltrock." (Molded.)
Gatke Corp., 228 N. La Salle St., Chicago 1, Ill.
Grey-Rock Div. of Raybestos-Manhattan, Inc., Manheim, Pa.
Miley Co., L. J., 18 S. Sangamon St., Chicago 7, Ill.
Raybestos Div. of Raybestos-Manhattan, Inc., Stratford, Conn.
Warner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo.

SHIMS, Brass and Copper

Acme Mfg. & Gasket Co., 733 N. 41st St., Philadelphia 4, Pa.
Bohn Aluminum & Brass Corp., 1400 Lafayette Bldg., Detroit 26, Mich.
Detroit Stamping Co., 357 Midland Ave., Detroit 3, Mich. "De-Sta-Co."
Fitzgerald Mfg. Co., 691 Main St., Torrington, Conn.
Gasket, Packing & Specialty Co., 298 Broadway, New York, N. Y. (Brass.)
Keystone Gasket Mfg. Co., 833 N. Fourth St., Philadelphia 23, Pa.
Kickhaefer Mfg. Co., 901-903 S. Second St., Milwaukee 4, Wis.
Konigslow Mfg. Co., Otto, 3600 Perkins Ave., Cleveland, Ohio.
Laminated Shim Co., 6205 Union St., Glenbrook, Conn.
McCord Corp., 2587 E. Grand Blvd., Detroit 11, Mich.
Monmouth Products Co., 6545 Carnegie Ave., Cleveland 3, Ohio. (Connecting Rod.)
Murray Auto Specialty Co., 1228 S. Olive St., Los Angeles 15, Calif. "Masco."
National Motor Bearing Co., Redwood City, Cal. (Brass.)
Rotax Mfg. Co., 24 Bathgate Place, Newark 7, N. J. (Brass.)
United Screw & Bolt Corp., 3590 W. 58th St., Cleveland, Ohio.
Victor Mfg. & Gasket Co., 5750 W. Roosevelt Rd., Chicago 50, Ill.
Whitehead Stamping Co., 1661 W. Lafayette Blvd., Detroit 16, Mich.
Wisconsin Gasket Die Co., 8724A Granville Rd., Granville, Wis.

SHIMS, Laminated

Blaisdell Mfg. Co., 1404 Alamitos Ave., Long Beach 13, Calif. "Feathered." (Bearing.)
Keystone Gasket Mfg. Co., 833 N. Fourth St., Philadelphia 23, Pa.
Laminated Shim Co., 6205 Union St., Glenbrook, Conn. "Laminum," "Fit-All." (Brass and Steel.)
National Motor Bearing Co., Redwood City, Cal.
Wisconsin Gasket Die Co., 8724A Granville Rd., Granville, Wis.

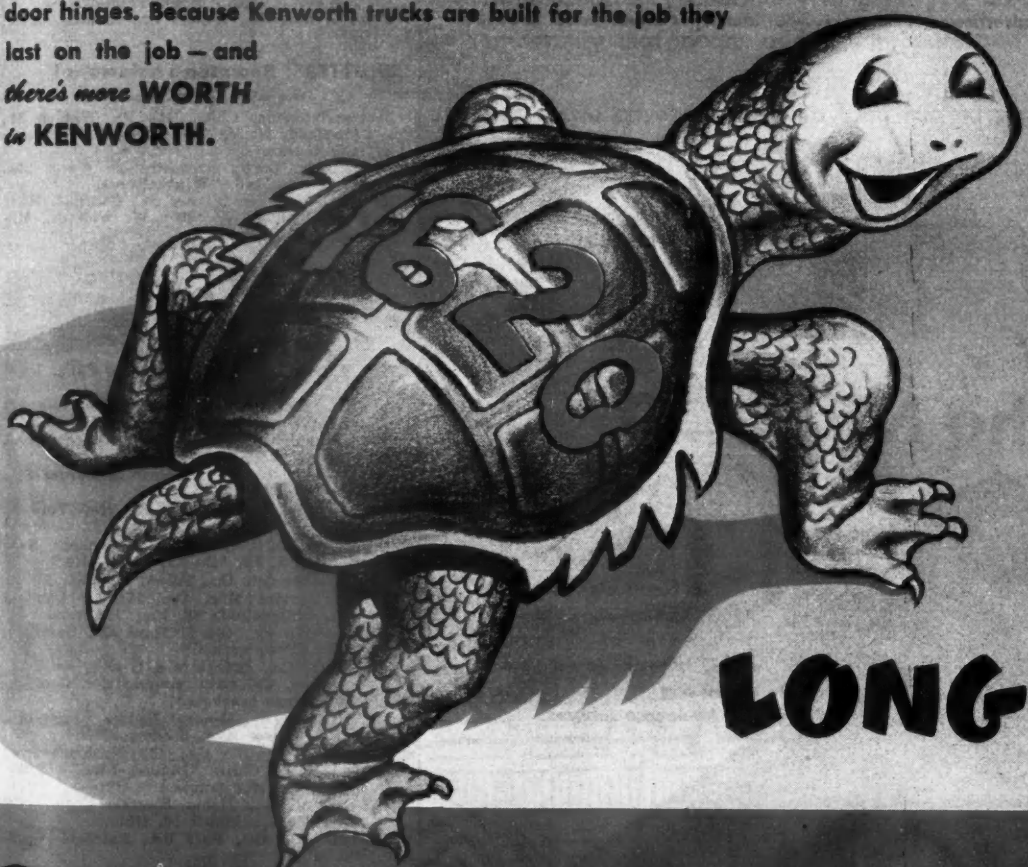
SHIMS, Steel

Acme Mfg. & Gasket Co., 738 N. 41st St., Philadelphia 4, Pa.
Champ-Items, Inc., 6191 Maple Ave., St. Louis 14, Mo. (Rear Axle End Play.)
Detroit Stamping Co., 357 Midland Ave., Detroit 3, Mich. "De-Sta-Co."
Dorman Products Inc., 1004 Sycamore St., Cincinnati 2, Ohio.
Gasket, Packing & Specialty Co., 298 Broadway, New York, N. Y.
Jambor Tool & Stamping Co., 3057 N. 30th St. Milwaukee 10, Wis. "Bull Dog."

2390-50

Like some tortoises and turtles, Kenworth trucks are noted for their long life. It is no longer even a novelty for a truck operator to own a Kenworth truck which has passed a million miles of service and is still going strong. This is due, in part, to the fact that, again like the turtle, a Kenworth truck carries a protective armor wherever it goes — tough sheet metal which stands up longer under harder service. But the fundamental reason behind the long life of Kenworth trucks is sound engineering which builds for the job in every detail — from frames to seats, from outside mounted air cleaners to heavy duty front wheel studs, from threaded spring pins to continuous full length door hinges. Because Kenworth trucks are built for the job they last on the job — and *there's more* **WORTH** *in* **KENWORTH.**

Built for the job

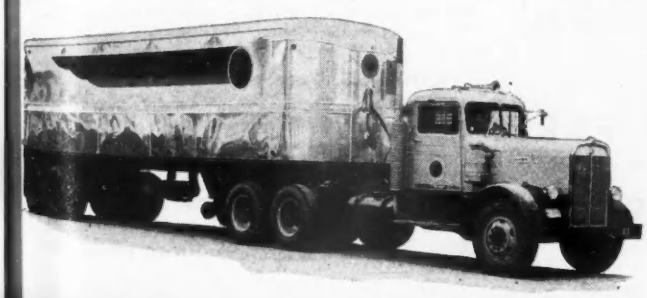


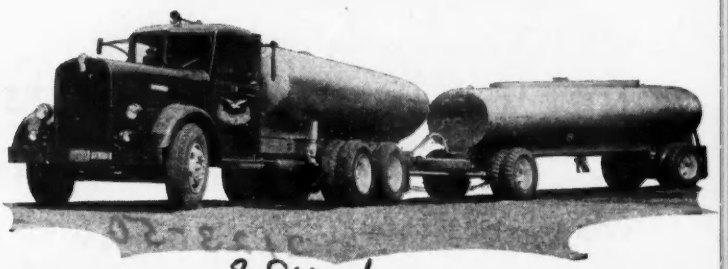
LONG LIFE

KENWORTH

TRUCKS ★ BUSES

FACTORY AND HOME OFFICE: SEATTLE, U. S. A., DISTRIBUTORS IN THE UNITED STATES AND MOST FOREIGN COUNTRIES





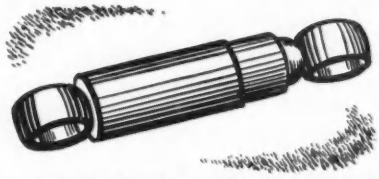
3811-1

SHIMS, Steel—cont.

Keystone Gasket Mfg. Co., 833 N. Fourth St., Philadelphia 23, Pa.
Konizslow Mfg. Co., Otto, 3600 Perkins Ave., Cleveland, Ohio.
Laminated Shim Co., 6208 Union St., Glenbrook, Conn.
National Motor Bearing Co., Redwood City, Cal.
United Screw & Bolt Corp., 3590 W. 58th St., Cleveland, Ohio.
Victor Mfg. & Gasket Co., 5750 W. Roosevelt Rd., Chicago 50, Ill.

SHOCK ABSORBERS

Briggs Shock Absorber Co., 1523 E. 45th St., Cleveland 3, Ohio.
Delco Products Div., General Motors Corp., 329 E. First St., Dayton, Ohio. (Hydraulic.)
Gabriel Co., 1523 45th St., Cleveland 3, Ohio.



Houdaille-Hershey Corp., Houde Engineering Div., 537 E. Delavan Ave., Buffalo 11, N. Y. "Houdaille." (Hydraulic.)
Monroe Auto Equipment Co., 1426 E. First St., Monroe, Mich. (Hydraulic.)
Rowland, Inc., William & Harvey, Frankford, Philadelphia 24, Pa. (Hydraulic.)
Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio. (Hydraulic.)

SHOCK ABSORBER FLUID, See Fluid, Shock Absorber

SHOES, Brake

Bendix Products Div., Bendix Aviation Corp., 401 Bendix Drive, South Bend 20, Ind. (Lined.)
Miley Co., L. J., 18 S. Sangamon St., Chicago 7, Ill.
Pick Mfg. Co., West Bend, Wis.
Wellman Co., S. K., 1374 E. 51st St., Cleveland 3, Ohio. "Velvetouch."

SHUTTERS, Radiator (Automatic)

Hardy Mfg. Corp., Broadway & Water Sts., Pendleton, Ind. "Winterfronts."
Kysor Heater Co., Haynes St., Cadillac, Mich.

SHUTTERS, Radiator (Automatic)

(See also Covers, Radiator)

Brewer-Titchener Corp., 115 Pt. Watson St., Cortland, N. Y. "Moto-Gard." (For buses and trucks.)
Hardy Mfg. Corp., Broadway & Water Sts., Pendleton, Ind. "Winterfronts."
Kysor Heater Co., Haynes St., Cadillac, Mich.
Speaker Corp., J. W., 3059 W. Weil St., Milwaukee 12, Wis.

SIGNALS, Direction Indicating

Arrow Safety Device Co., Mt. Holly, N. J. (Also flashing stop lights.)
Auto Radiator Mfg. Co., 2901 Indiana Ave., Chicago, Ill. "Pathfinder."
Bolser Corp., S. Main St., Cedar Falls, Iowa. (For trucks.)
Carlton Lamp Co., 736 S. 13th St., Newark 3, N. J.
Carpenter Mfg. Co., E. W., 1565 Railroad Ave., Bridgeport 5, Conn.
Delbar Products, Inc., Seventh & Spruce Sts., Perkasie, Pa.
Dietz Co., R. E., 60 Laight St., New York 13, N. Y.
Do-Ray Lamp Co., 1458 S. Michigan Ave., Chicago 5, Ill. "Do-Ray Turn-Lite."
Electric Auto-Lite Co., Toledo 1, Ohio.
Electric Service Mfg. Co., 17th & Cambria Sts., Philadelphia 32, Pa. "Keystone."
Griffin Lamp Co., 401 S. Third St., Hamilton, Ohio. "Premier XX."
Grote Mfg. Co., Lafayette & Grandview Aves., Bellevue, Ky. (Also combination stop, tail and license brackets.)
Guide Lamp Div. General Motors Corp., 25th St. & Arrow Ave., Anderson, Ind.
Industrial Scientific Co., 180 N. Fruit Ave., Fresno 9, Calif. "Indusco-Lite." (Semaphore type for trucks.)
K-D Lamp Div., Noma Electric Corp., 1910 Elm St., Cincinnati 10, Ohio.
Kilborn-Sauer Co., Post Rd., Fairfield, Conn. "K-S."
Parker Products, Inc., 20 N. 16th St., Minneapolis 3, Minn. "Parker Direct-A-Lite."
Ring-Wald Products, 123 N. Lowry Ave., Springfield, Ohio. (Stop semaphores, for school buses.)
Royson Div., E. W. Carpenter Mfg. Co., 1565 Railroad Ave., Bridgeport 5, Conn. (For trucks and buses.)
S & M Lamp Co., 119 W. 36th Place, Los Angeles 54, Calif.
See-Mor Lamp Co., 123 W. Pearl St., Cincinnati 2, Ohio.
Signal-Stat Corp., 1430 Herkimer St., Brooklyn 33, N. Y. (Bus and truck.)
Sparton Automotive Div., Sparks-Withington Co., W. North St., Jackson, Mich.
Turnsignal Corp., 400 E. Rittenhouse St., Philadelphia 44, Pa.
U. S. Metal Products Co., 1045 Atlantic Ave., Brooklyn, N. Y. "U. S. Pioneer."
Yankee Metal Products Corp., 31 Grand St., Norwalk, Conn. "Yankee Jr."

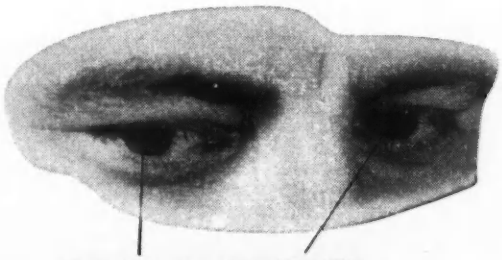
SIGNALS, Gasoline Tank

Scully Signal Co., 88 First St., Cambridge, Mass. "Ventalarm Filgard."

SIRENS, Horn, See Horn Sirens

SIX WHEEL ATTACHMENTS, See Axle Units. Third for Trucks

This is one of a series of advertisements to help you identify Neapco-made products.



Look for the NEAPCO name!

This is Neapco's new No. 9060 factory duplicate for replacement of Chevrolet 606779. Fits all Chevrolet passenger cars from 1940 to 1948 incl. At Neapco Jobbers.

NEAPCO

The name NEAPCO is plainly marked on all Universal Joints and Parts manufactured by Neapco Products Inc. This is your unequivocal guarantee of quality and dependability. Be sure it is NEAPCO—look for the name.

NEAPCO UNIVERSAL JOINTS & PARTS

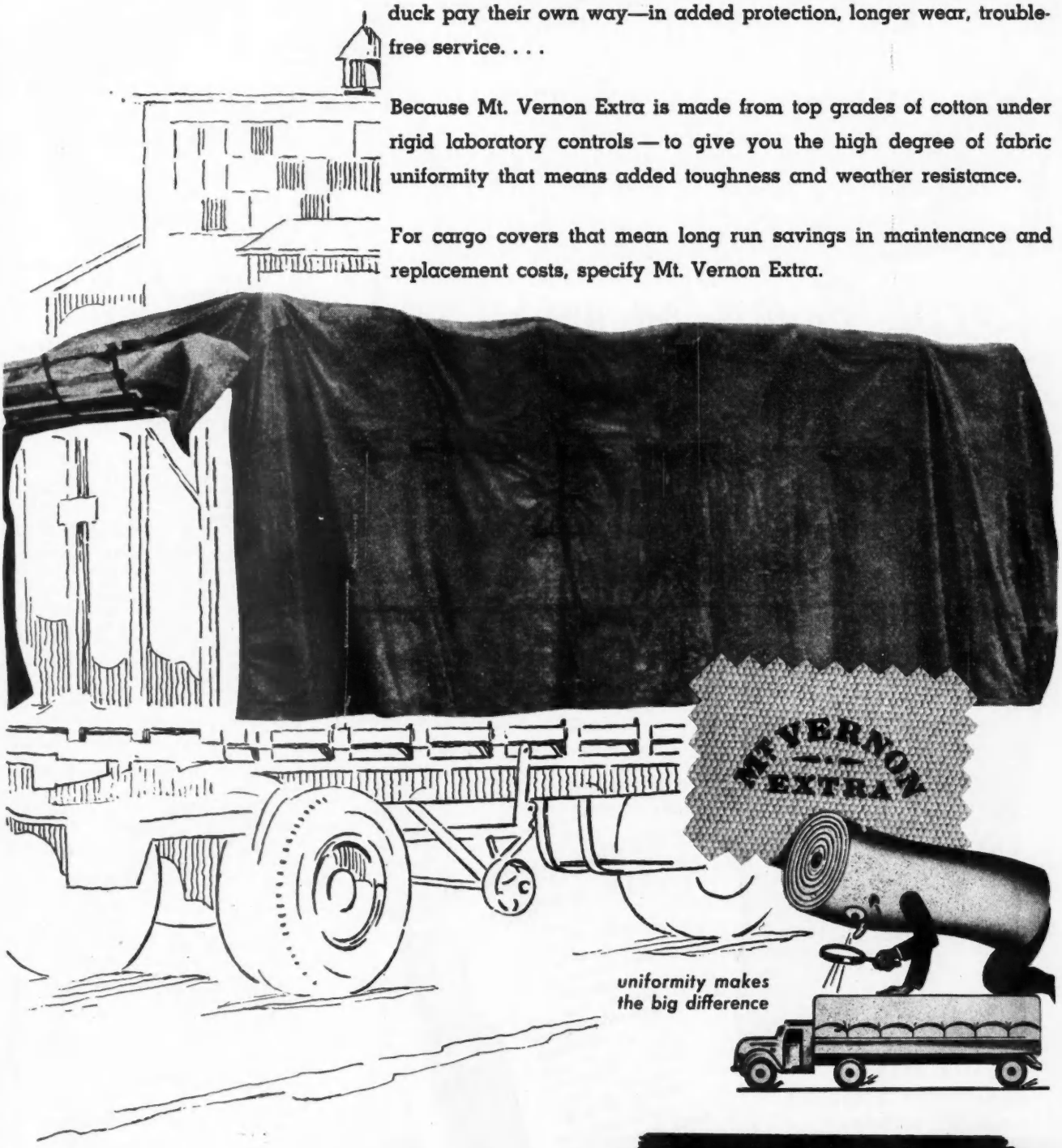
NEAPCO PRODUCTS INC., POTTSTOWN, PA.

Cargo Covers That "Carry" Themselves

You'll find that cargo covers made from Mt. Vernon Extra duck pay their own way—in added protection, longer wear, trouble-free service. . . .

Because Mt. Vernon Extra is made from top grades of cotton under rigid laboratory controls — to give you the high degree of fabric uniformity that means added toughness and weather resistance.

For cargo covers that mean long run savings in maintenance and replacement costs, specify Mt. Vernon Extra.



Mt. Vernon-Woodberry Mills

TURNER HALSEY
COMPANY
Selling Agents
40 WORTH ST. • NEW YORK

Branch Offices: CHICAGO • ATLANTA • BALTIMORE • BOSTON • LOS ANGELES • AKRON

385-188

SLEEVES, Cylinder

Allied Motor Parts Co., Fox Theatre Bldg., Detroit, Mich.
Aluminum Industries, Inc., 2438 Beekman St., Cincinnati 25, Ohio. "Permite."
Campbell, Wyant & Cannon Foundry Co., Muskegon, Mich. (Centrifugally cast.)
Centrifugal Foundry Co., 1367 W. Sherman Blvd., Muskegon, Mich.
Frank Foundries Corp., 2020 Third St., Moline, Ill. "Frankite."
Gunite Foundries Corp., 302 Peoples Ave., Rockford, Ill.
Jahn's Quality Piston Co., 2652 Lacy St., Los Angeles, Cal.
King Quality Products Co., 2320 Marconi St., St. Louis 20, Mo.
Luthy Co., F. A., 302 Cooper St., Jackson, Mich.
McQuay-Norris Mfg. Co., 2320 Marconi St., St. Louis, Mo.
Nylen Products Co., Lake Shore Drive, St. Joseph, Mich.
Ohio Piston Co., 5342 Hamilton Ave., Cleveland 14, Ohio.
Sealed Power Corp., 500 Sanford St., Muskegon, Mich.
Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio.
Toledo Steel Products Co., 3300 Summit St., Toledo 11, Ohio. (Wet and dry assemblies.)
Versnick Mfg. Co., 2531 E. Davison Ave., Detroit 12, Mich. (Dry type.)
White Machine Works, 1401 Bellevue Ave., Eau Claire, Wis. "Superior."
Wisconsin Machinery & Mfg. Co., S. 60th St. & Beloit Rd., Milwaukee 14, Wis.

NEW BENNETT FLEETMETER

"Keeps Books" on your gas!

Here is the latest model of the Bennett Fleetmeter, the pump that provides not only fast, accurate delivery of gas, but exact inventory control! Fleetmeter ticket printers deliver a *printed receipt* after each delivery to "keep books" on all fuel dispensed . . . protect you against loss . . . and eliminate errors. This new Fleetmeter, whose strikingly modern design makes it a full eight inches lower than previous models, also offers more efficient hose handling and greater serviceability than ever before. For full details, write for Catalog No. FLM-2.

PRECISION PRESSURE GAUGING from 5 to 110 POUNDS!

Eco Tireflators are the *only* automatic tire inflation machines that give you 5 to 110 pound service range . . . precision accuracy through factory-sealed calibration . . . faster delivery for large, high pressure truck tires, and other features of special value to fleet operators. For details, write for Catalog No. AIR-1.

SERVICE STATION EQUIPMENT COMPANY
MUSKEGON, MICHIGAN

a JOHN WOOD Affiliate

SLUDGE REMOVING COMPOUNDS, CRANKCASE, See Compounds, Crankcase Sludge Removing

SNOW PLOWS

Baker Mfg. Co., 571 Stanford Ave., Springfield, Ill.
Davenport-Besler Corp., 2305 Rockingham Rd., Davenport, Iowa. "Frink Sno-Plows." (Western United States.)
Frink Sno-Plows, Inc., Clayton, Thousand Islands, N. Y. (Eastern United States.)
Good Roads Machinery Corp., Minerva, Ohio.
Howell Industrial Truck Co., 8899 Maywood Ave., Cleveland 2, Ohio.
Klauer Mfg. Co., Dubuque, Iowa. "Snogo." (Rotary.)
Root Spring Scraper Co., 527 W. North St., Kalamazoo 11, Mich.
Walter Motor Truck Co., 1001 Irving Ave., Ridgewood, L. I., N. Y.
Wausau Iron Works, Wausau, Wis.

SOAPS, Car Washing

(See also Detergents)

Crystal Soap & Chemical Co., 6300 State Rd., Philadelphia 35, Pa.
Harley Soap Co., Pierce & Orthodox Sts., Philadelphia 37, Pa.
Hollingshead Co., R. M., 840 Cooper St., Camden, N. J. "Whiz."
Lava Co. of America, 300 N. Seventh St., Milwaukee, Wis.
Magnus Chemical Co., 185 South Ave., Garwood, N. J.
Mirrorlike Mfg. Co., 36th St. & Queens Blvd., Long Island City 1, N. Y.
Stanley Co., John T., 642 W. 30th St., New York, N. Y. "Mobo."

SOLVENTS, Oil, Carbon and Grease Removing

Atomized Materials Co., 200 Magee Bldg., Pittsburgh 22, Pa. "Kwik-Solv."
Bendix Products Div., Bendix Aviation Corp., 401 Bendix Drive, South Bend 20, Ind. "Bendix Metalclean."
Blakeslee & Co., G. S., 1900 S. 52nd St., Cicero, Ill. "Blacosolv."
Buchanan Chemical Co., C. G., 4640 Baker Rd., Cincinnati 12, Ohio. "Byr-Ma-Co."
Cannon Chemical Co., 181 Portland St., Cambridge 41, Mass. "Sludgebuster."
Carbide & Carbon Chemicals Corp., 30 E. 42nd St., New York 17, N. Y.
Castor Oil Products, Inc., 145 Alexander St., Yonkers 2, N. Y. "Trizol."
Champion Products, Inc., P. O. Box 291, Stephenville, Tex.
Circo Products Co., 12117 Berea Rd., Cleveland 11, Ohio. "CirCold," "Dee Tee," "Per Solv," "Circo-Solv," "Dee-Solv."
Cities Service Oil Co. (Pa.), 60 Wall Tower, New York 5, N. Y. "Cisco," "Solvent 26A."
Clayton Mfg. Co., 1363 Ellis Lane, El Monte, Calif. "Kerrick Kermulso."
Colonial Alloys Co., Ridge Ave. & Crawford St., Philadelphia 29, Pa. "Cyclodiene," "Percyolodiene," "Dicyclodiene," "Tricyclodiene," "Running Gear."
Commercial Solvents Corp., 17 E. 42nd St., New York 17, N. Y.
Cooper Co., D. C., 1467 S. Michigan Ave., Chicago 5, Ill. "D. C."
Crystal Soap & Chemical Co., 6300 State Rd., Philadelphia 35, Pa.
Curran Corp., S. Canal St., Lawrence, Mass. "Gunk," "Hydro-Seal," "Motor Purge."
Dacar Chemical Products Co., Wabash & McCartney Sts., Pittsburgh 20, Pa.
Detrex Corp., Box 501, Detroit 32, Mich. "Drex-Foam," "Perm-A-Clor," "Triad."
Drew & Co., E. F., 15 E. 26th St., New York, N. Y. "Ameroid Dusol."
Du Bois Co., 1120 W. Front St., Cincinnati 3, Ohio. "Actusol," "Sprex."
du Pont de Nemours & Co., E. I., Chemical Specialties Div., Wilmington, Del. "Dissolvo."
du Pont de Nemours & Co., E. I., Electrochemicals Dept., Wilmington, Del. "Perclene," "Triclene."
Esso Standard Oil Co., 15 W. 51st St., New York 19, N. Y. "Solvesso," "Varsol."
Finch, Ltd., Leon, 728 E. 59th St., Los Angeles 1, Calif.
Gerlach Co., A. E., P. O. Box 133, Eddington, Bucks County, Pa. "60 Cleaner," "Soax," "Jelzine."
Gray Mills Corp., 2006 Ridge Ave., Evanston, Ill.
Harley Soap Co., Pierce & Orthodox Sts., Philadelphia 37, Pa. "Harco."

3860-30

Standardize on Packard Four-Forty ignition cable and you not only simplify your stock but you save on maintenance costs and promote better engine performance!

Packard Four-Forty, you know, is the *one* cable with which this standardization can be accomplished, for it is the one cable that is *engineered* to meet every requirement of every vehicle in every climate!

***Quality* is the answer—quality of the type which results in *more miles per replacement!* And, after all, it's MPR* that counts—first, last and all the time!**

Packard
REG. U. S. PAT. OFF.
TRADE MARK

Packard Electric Division, General Motors Corporation
Warren, Ohio

FOREMOST BUILDER OF AUTOMOTIVE AND AVIATION WIRING

1531-1

SOLVENTS, Oil, Carbon and Grease Removing—cont.

Hollingshead Co., R. M., 840 Cooper St., Camden, N. J. "Whiz Dip-Zoff;" "Whiz Ho-Zof." (For garage use.)
Homestead Valve Mfg. Co. (Hypressure Jenny Div.), Narrows Run Road, Coraopolis, Pa. "Hypressure Jenny."
Industrial Chemical Products Co., 3769 Bellevue Ave., Detroit 7, Mich. "Industrosolv."
Kelite Products, Inc., Box 2917 Terminal Annex, Los Angeles 54, Calif.
Kelley Co., J. W., 3401 W. 140th St., Cleveland 11, Ohio. "Kelco."
Kleer-Flo Co., 250 W. 57th St., New York 19, N. Y.
Klem Chemicals, Inc., 14401 Lanson St., Dearborn, Mich.
Magnus Chemical Co., 185 South Ave., Garwood, N. J. "Magnus," "Magnusol."
Magnuson Products Corp., 50 Court St., Brooklyn, N. Y. "Permag."
Martindale Electric Co., 1340 Hird Ave., Cleveland 7, Ohio. "Imperial Wash-er Clean."
Mitchell-Bradford Chemical Co., 2446 Main St., Stratford, Conn. "Black Magic."
Oakite Products, Inc., 22 Thames St., New York 6, N. Y.
Park Chemical Co., Military & Vancouver Aves., Detroit 4, Mich. "Parko."
Penetone Co., 74 Hudson Ave., Tenafly, N. J. "Major."
Pennsylvania Refining Co., Butler Savings & Trust Bldg., Butler, Pa. "Penn Drake Gumont."
Permo Products Co., 1629 Platte St., Denver 2, Colo.
Petroleum Solvents Corp., 331 Madison Ave., New York 17, N. Y. "Siloo."
Phillips Mfg. Co., 3475 Toughy Ave., Chicago 45, Ill. "Phillsolv."
Rossaul Co., 170 Fifth Ave., New York 10, N. Y. "Rossaul Active."
Schaffer Co., M., 597 St Ann's Ave., Bronx 55, N. Y.
Service Supply Co., 1115 Seventh St., Denver 2, Colo. "Solvo," "D-Greaso."
Shell Oil Co., 50 W. 50th St., New York 20, N. Y.
Solrun Services, Inc., 49 N. Second St., Philadelphia 6, Pa. "Nasolv," "Solv," "Vaposolv," "Savsol."
Solventol Chemical Products, Inc., 15841 Second Blvd., Detroit, Mich.
Stain-Ox Co., 625 E. First Ave., Roselle, N. J. (Oil and grease.)
Standard Oil Co. of Calif., 225 Bush St., San Francisco 20, Calif.
Standard Oil Co. of Texas, 1600 City National Bank Bldg., Houston 1, Tex.
Stanley Co., John T., 642 W. 30th St., New York, N. Y. "Mobo."
Sure-Rite Products Corp., 2731 N. Sixth St., Philadelphia 33, Pa.
Tumbler Laboratories, J. A., 423 S. Hanover St., Baltimore 1, Md.
Turco Products, Inc., 6135 S. Central Ave., Los Angeles, Calif. "Turco Penetrol," "Turco Mulsine," "Turco Fuzee," "Ferrex."
U. S. Chemical & Supply Co., 1424 McGee St., Kansas City 6, Mo. "Z-4."
Watts-Wagner Co., 113 Frelinghuysen Ave., Newark 5, N. J.
Wyandotte Chemicals Corp., J. B. Ford Div., Wyandotte, Mich.

SPACERS, Wheel

Budd Co., Wheel Div., 12141 E. Charlevoix Ave., Detroit 14, Mich.
Lambert Products, Inc., 513 Hunter Ave., Dayton, Ohio. (Dual.)

SPARK PLUG CLEANERS, See Cleaners, Spark Plug

SPARK PLUGS

AC Spark Plug Div., General Motors Corp., 1300 N. Dort Highway, Flint 2, Mich.
American Eagle Spark Plug Co., 3205 Barlum Tower, Detroit 26, Mich.
Auburn Spark Plug Co., York St., Auburn, N. Y.
Blue Crown Spark Plug Co., Div. of Motor Master Products Corp., 1800 Winnemac Ave., Chicago 40, Ill. "Blue Crown Husky."
Bowers Battery & Spark Plug Co., Reading, Pa.
Bowes "Seal Fast" Corp., 228 N. Pine St., Indianapolis 7, Ind.

Champion Spark Plug Co., 904 Upton Ave., Toledo 1, Ohio.
Defiance Spark Plug Corp., 323 20th St., Toledo, Ohio.
Doering Mfg. Corp., A. L., 99 Seacrest Ave., Eltingville, S. I. 12, N. Y. "Aldor," "Doering."
Doran, Inc., James A., 80 W. Exchange St., Providence 3, R. I.
Edison, Inc., Thomas A., Automotive Div., West Orange, N. J.
Electric Auto-Lite Co., Merchandising Div., Toledo, Ohio. "Auto-Lite." (Aircraft and automotive.)
Firestone Tire & Rubber Co., S. Main St., Akron, Ohio.
G. M. Co Mfg. Co., 43-10 21st St., Long Island City, L. I., N. Y.
Globe-Union, Inc., 900 E. Keefe Ave., Milwaukee 1, Wis.
Goodrich Co., B. F., 500 S. Main St., Akron, Ohio.
Hastings Mfg. Co., 375 E. Mill St., Hastings, Mich.
International Spark Plug Co., 260 Grand St., Hamburg, Pa. "Thor."
Jordan Electrical Mfg. Co., 222 N. Second St., Minneapolis 1, Minn.
Leonard Spark Plug Co., 148 Summit St.,

1944-50

SELF-CONTROL STARTS HERE

and to restore
ENGINE PERFORMANCE

OIL-CONTROL STARTS HERE

TO STOP OIL-PUMPING, REPLACE WORN CONNECTING ROD BEARINGS

You can be tied up in knots if you forget to check for—and replace—worn engine bearings on an oil pumper.

Always check the bearings. Worn connecting rod and main bearings let excess oil reach combustion chambers. It burns to performance-wasting carbon. The engine has no pep, and it's costly to operate.

Give new rings a chance to do their own job. When bearings are worn, replace with Genuine Federal-Mogul Bearings, engineered for the job of oil-control! They mean renewed fine performance for the engine!

FEDERAL-MOGUL SERVICE
(Division of Federal-Mogul Corporation)
DETROIT 13, MICHIGAN

The Complete Line—
More Than 7000 Numbers

Engine Bearings (Main, Connecting Rod and Camshaft) • Bushings • Connecting Rod Exchange • Reconditioned Connecting Rods • Rebabbitted Connecting Rods • Connecting Rod Bolts and Nuts • V-Seam Piston Pin Bushings • Bearing Metals • Laminated Shims

50th ANNIVERSARY FEDERAL Mogul

CONTROL OIL-PUMPING
WHERE IT STARTS—WITH

FEDERAL-MOGUL

OIL CONTROL **BEARINGS**

1952-1

SPARK PLUGS—cont.

Newark 4, N. J. "Leonard;" "Atomic-Flash" (Shielded).
Loreman Automotive Products, Moore & Division Sts., Salisbury, Md.
Luthy Co., F. A., 302 Cooper St., Jackson, Mich. "Flint," "Luthy."
Monarch Insulated Wire Co., 491 Broadway, New York 12, N. Y.
Powercraft Corp., 2502 S. Wabash Ave., Chicago, Ill. "Majestic." (Sole distributors, Leterstone Sales Co., 2515 S. Wabash Ave., Chicago, Ill.)
Reflex Spark Plug Co., 10904 Madison Ave., Cleveland 2, Ohio.
Shurhit Products, Inc., Waukegan, Ill.
Stitt Ignition Co., 86 E. First Ave., Columbus 1, Ohio.
Trojan Products Co., Galion, Ohio. "Alvo," "Gold Bond," "Invader," "Power," "Trojan," "Gold Medal," "United," "National," "Karlife," "Motor King," "Pharis."
Tungsten Spark Plug Mfg., Tungsten Bldg., 1716 S. Michigan Ave., Chicago 16, Ill.

SPEEDOMETERS

AC Spark Plug Div., General Motors Corp., 1300 N. Dort Highway, Flint 2, Mich.
Eclipse-Pioneer Div., Bendix Aviation Corp., Teterboro, N. J.
Electric Auto-Lite Co., Instrument & Gage Div., La Crosse, Wis.
Jones-Motorola Corp., 432 Fairfield Ave., Stamford, Conn. (For fire engines, trucks, racing cars, etc.)
King-Seeley Corp., K-S Bldg., Ann Arbor, Mich. "K-S."
Stewart-Warner Corp., 1826 Diversey Parkway, Chicago, Ill.
United States Taximeter Co., 514 W. 54th St., New York 19, N. Y. "U. S. Tachograph." (Recording, for trucks.)
Waltham Watch Co., Waltham, Mass.

SPLASH GUARDS, See Guards, Splash

SPOTLIGHTS, See Lamps, Fog, Road, Spot

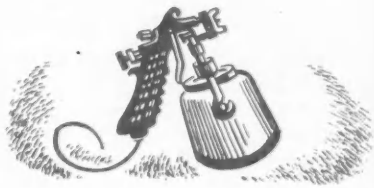
SPRAYERS, Molten Metal

Accurate Tool & Engineering Co., 640 Tenth Ave., San Diego 1, Calif. "Trobrand."
Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa. "Sioux."
Holmes Co., Ernest, 2505 E. 43rd St., Chattanooga, Tenn. (Solder.)
Metallizing Co. of America, 3520 W. Carroll Ave., Chicago 24, Ill. "Mogul."
Metallizing Engineering Co., 38-14 30th St., Long Island City, N. Y. "Metco."
Turner Brass Works, 821 Park Ave., Sycamore, Ill.

SPRAY BOOTH, See Booths, Spraying (Paint and Varnish).

SPRAYERS, Paint, Varnish and Lacquer, and Accessories)

American Brake Shoe Co., Kellogg Div., 97 Humboldt St., Rochester 9, N. Y. "Brake-Shoe."
Black Mfg. Co., 1416 W. Baltimore St., Baltimore 23, Md. "Milburn," "Black Arrow."
Brown Corp., W. R., 5720 Armitage Ave., Chicago, Ill. "Marvel," "Speedy." (Also auto power.)
Campbell-Hausfeld Co., 801 Moore St., Harrison, Ohio. "Paragon."
Cesco Products, Inc., 30 N. La Salle St., Chicago 2, Ill. "Color Dabber."
Decora Mfg. Co., 1516 Park Ave., Emeryville 8, Calif.
DeVilbiss Co., 300 Phillips Ave., Toledo 1, O.
Eclipse Air Brush Co., 390 Park Ave., Newark 7, N. J. "Eclipse," "Gat."
Electric Sprayit Co., 14th & Illinois Sts., Sheboygan, Wis. "Sprayit."
G. M. Co Mfg. Co., 43-10 21st St., Long Island City, L. I., N. Y.
Lonn Mfg. Co., 131 E. New York St., Indianapolis 6, Ind.
Macleod Co., 2232 Bogen St., Cincinnati 22, Ohio.
Master Mfg. Co., 811 W. Cabrini St., Chicago 7, Ill.
Miller Corp., K. J., 2900 S. 61st Court, Cicero 50, Ill.
Paasche Airbrush Co., 1909 Diversey Parkway, Chicago 14, Ill.
Pioneer Air Compressor Co., 120 Chambers St., New York 7, N. Y.
Plasti-Kote, Inc., 425 Lakeside Ave., N. W., Cleveland 13, Ohio. (Operated by auto engine; also inflates tires.)



Plummer Spray Equipment Co., 700 Fillmore St., Napoleon, Ohio. "Handigrip," "Plummer."
Portable Elec. Tools, Inc., 255 W. 79th St., Chicago 20, Ill.
Saylor-Beall Mfg. Co., St. Johns, Mich.
Scharoun Corp., Pulaski, N. Y.
Sharpe Mfg. Co., 1224 Wall St., Los Angeles 15, Calif.
Spray Engineering Co., 114 Central St., Somerville 45, Mass. "Spraco."
Stowe, Jr., George M., 277 Military Road, Buffalo 7, N. Y. "Multiblasters." (For rough painting only.)
Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K. R. W."

SPRAYERS, Undercoating

Aro Equipment Corp., Bryan, Ohio.
Binks Mfg. Co., 3114 Carroll Ave., Chicago 12, Ill.
Black Mfg. Co., 1416 W. Baltimore St., Baltimore 23, Md. "Muff Gun."

NOW! Perfect Stocking WITH THE ECHLIN Visumatic PROGRAM

It's *visual* . . . it's *automatic,* hence VISUMATIC! That's the big idea of the sensational new ECHLIN VISUMATIC Program. With it you have an orderly stock of the Ignition Parts you need . . . *only* as *many* as you need . . . and constant VISUAL control *every* day! No obsolete items, no overstocking, no Parts hidden away, no "forgot-to-order" Parts.

Space prevents our telling you here ALL the features of the ECHLIN VISUMATIC Program for Fleet maintenance and service. Ask your NAPA Jobber about it today! He can give you your choice of many VISUMATIC Assortments or tailor one precisely to your individual needs.

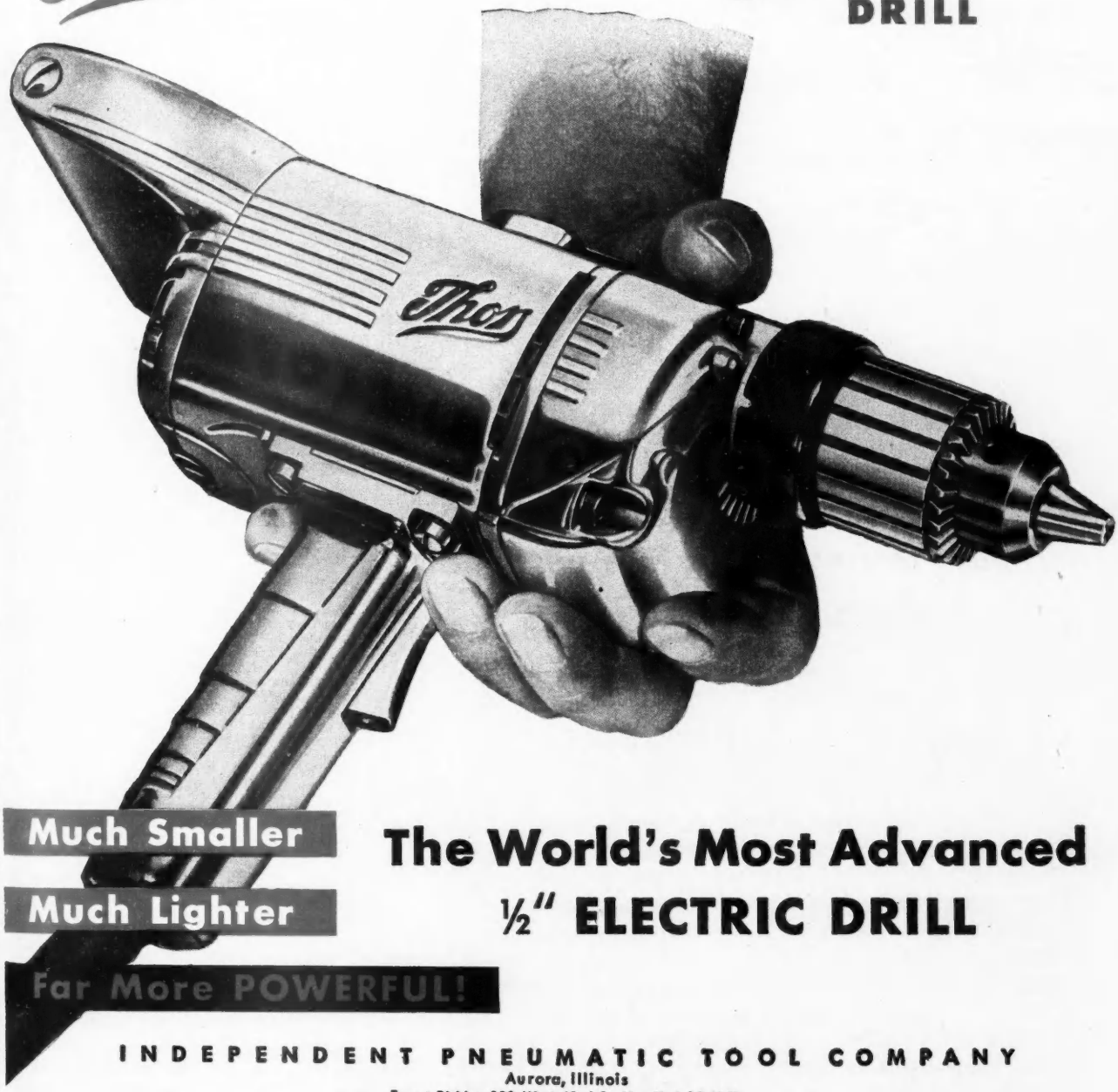
VISUAL STOCK CONTROL
•
SNAP-IN SHELF DIVIDERS
•
ROOM FOR EXPANSION
•
PERPETUALLY BALANCED STOCK

ECHLIN Ignition
CONTACTS
COILS • CONDENSERS
& OTHER AUTOMOTIVE
ELECTRICAL PARTS

ECHLIN MANUFACTURING COMPANY
234 EAST STREET • NEW HAVEN 5, CONN.

1943-50

Thor ANNOUNCES THE ½" Silver Line DRILL



Much Smaller

Much Lighter

Far More POWERFUL!

The World's Most Advanced ½" ELECTRIC DRILL

INDEPENDENT PNEUMATIC TOOL COMPANY

Aurora, Illinois

Export Division: 330 West 42nd St., New York 18, N. Y.

Birmingham, Boston, Buffalo, Chicago, Cincinnati, Cleveland, Denver, Detroit, Houston, Los Angeles, Milwaukee, New York, Philadelphia, Pittsburgh, St. Louis, St. Paul, Salt Lake City, Seattle, San Francisco, Toronto, Canada, Sao Paulo, Brazil, London, England

Thor PORTABLE POWER TOOLS

2520-1

SPRAYERS, Undercoating—cont.

DeVilbiss Co., 300 Phillips Ave., Toledo, Ohio.
Electric Sprayit Co., 14th & Illinois Sts., Sheboygan, Ill.
Gray Co., 60 11th Ave., N. E., Minneapolis 13, Minn. "Graco."
Smith Mfg. Co., Grover C., 850 E. Valley Blvd., San Gabriel, Calif. "Grover." (Air operated.)
Stewart-Warner Corp., Alemite Div., 1826 Diversey Parkway, Chicago 14, Ill.
Stowe, Jr., George M., 277 Military Road, Buffalo 7, N. Y.

SPRINGS, Leaf

Benz Spring Co., 321 N. W. Ninth Ave., Portland 9, Ore.
Betts Spring Co., 868 Folsom St., San Francisco, Calif.
Burton Auto Spring Corp., 2433 W. 48th St., Chicago 32, Ill. (For cars, trucks, trailers and buses.)
Champ Spring Co., 2107 Chouteau Ave., St. Louis, Mo. "Champion."
Cincinnati Auto Spring Co., 311 Central Ave., Cincinnati 2, Ohio. "Casco." (For trucks and trailers.)
Detroit Steel Products Co., 2250 E. Grand Blvd., Detroit 11, Mich.
Eaton Mfg. Co., Spring Div., 9771 French Road, Detroit, Mich.
Hoover Spring Co., 1335 Franklin St., San Francisco, Calif. "E. C.," "E. C. V."
Iron City Spring Co., 2920 Smallman St., Pittsburgh, Pa.
Laher Spring & Tire Corp., 26th & Magnolia Sts., Oakland, Calif.
Liggett Spring & Axle Co., Monongahela, Pa.
Maremont Automotive Products, Inc., S. Ashland at 17th St., Chicago, Ill. (Auto, truck, bus and trailer.)
Mather Spring Co., 939 Wolcott Blvd., Toledo 10, Ohio.
Perfection Spring Co., 3721 King Ave., Cleveland 14, Ohio.
Rowland, Inc., William & Harvey, Lewis & Tacony Sts., Frankford, Philadelphia 24, Pa.
St. Louis Spring Co., Div. of Moog Industries, Inc., 6650 Easton Ave., St. Louis 14, Mo. "Moog."
Service Spring Co., Box 638, Indianapolis 6, Ind. "Service-Indianapolis."
Standard Steel Spring Co., Coraopolis, Pa.
Trainor National Spring Co., Box 391, New Castle, Ind.
Triangle Auto Spring Corp., Maloney Rd. & B. & O. R. R., Dubois, Pa.
Tuthill Spring Co., 760 Polk St., Chicago 7, Ill.
United States Spring & Bumper Co., 4951 Alcoa Ave., Los Angeles 11, Calif.
Vulcan Spring Co., 755 Lexington St., Chicago 7, Ill.

STANDS, Adjustable

Ajax Auto Parts Co., 1201 Michigan Blvd., Racine, Wis.
Associated Producers, Inc., 1019 E. Eight Mile Rd., Hazel Park, Mich. "API."
Auto Sheet Metal Works, 735 E. Gage Ave., Los Angeles 1, Calif. "Trojan."
Auto Specialties Mfg. Co., 557 Graves St., St. Joseph, Mich.
Calco Steel Products Co., 23 New England Ave., Dorchester 24, Mass.
Evans Reamer & Machine Co., 5490 Dunham Rd., Maple Heights, Ohio.
Hein-Werner Corp., 1200 National Ave., Waukesha, Wis.
Holmes Co., Ernest, 2505 E. 43rd St., Chattanooga, Tenn.
Joyce-Cridland Co., 2027 E. First St., Dayton 3, Ohio.
Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio.
Manley Mfg. Div., American Chain & Cable Co., E. Princess & Charles Sts., York, Pa.
Toledo Pressed Steel Co., 397 Phillips Ave., Toledo, Ohio. (Folding.)
Wagner Mfg. Co., 122 W. First St., Cedar Falls, Iowa. (Folding.)
Walker Mfg. Co. of Wis., Michigan & Hamilton Sts., Racine, Wis.
Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill. (Horses.)
Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K. R. W."

STANDS, Axle Repair (Rear)

Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
Miller Mfg. Co., 5919 Tireman Ave., Detroit 4, Mich.
Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K. R. W."

STANDS, Body Parts Repair

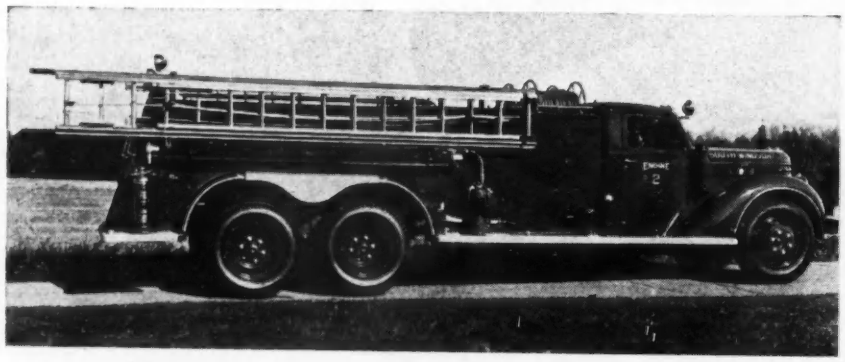
Blackhawk Mfg. Co., 5325 W. Rogers St., Milwaukee 1, Wis. "Reck-Rack."

STANDS, Engine Transmission Repair

Cam Tool Co., 288 21st St., Oakland, Calif. "Kaasco."
Clayborne Mfg. Co., 3234 W. 31st St., Chicago 23, Ill.
Curtiss & Smith Mfg. Corp., 22 High St., Pottstown, Pa. "C S."
Evans Reamer & Machine Co., 5490 Dunham Rd., Maple Heights, Ohio.
Grayson Tool Co., Hastings, Neb. (For Ford and Mercury engines.)
Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
Kerkling & Co., 12270 Montague St., Pacoima, Calif. "K & W." (For Ford engines.)
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio.
Manley Mfg. Div., American Chain & Cable Co., E. Princess & Charles Sts., York, Pa.
Miller Mfg. Co., 5919 Tireman Ave., Detroit 4, Mich.
Montague Equipment Co., 615 McKaig Ave., Troy, Ohio. "All Point."

STANDS, Portable Tool and Parts

All-Steel-Equip Co., 544 Cleveland Ave., Aurora, Ill. "A-S-E."



Gets to any Rural Fire with
Fabco Dual Drive

When the South Windsor, Connecticut, Fire Department answers a rural fire alarm, they rush to the scene of the fire in a hurry. Pictured here is their new fire pumper equipped with a FABCO DUAL DRIVE which enables them to do just that. Though this truck carries a 1000-gallon water tank, 1000 feet of 2½" fire hose and a wet water and foam proportioner, it can drive right up to any rural fire. That's because the third axle provided by the FABCO DUAL DRIVE doubles the traction, and it will carry extra weight over bumpy rural lanes and soft ground to the structural fire regardless of location.

If you operate medium duty production model trucks, and want to get maximum efficiency from beginning to end of your hauls, profit from the experience of others. Investigate the application of FABCO DUAL DRIVES to your particular problem. May we send you a copy of our Dual Drive Bulletin?

Fabco

29 Years in this Business

F. A. B. MANUFACTURING CO.
1249 SIXTY-SEVENTH STREET · OAKLAND 8, CALIFORNIA
Dual Drives · 6 and 10 Wheel Units · Logging and Highway Trailers · Frame Extensions

1946-50

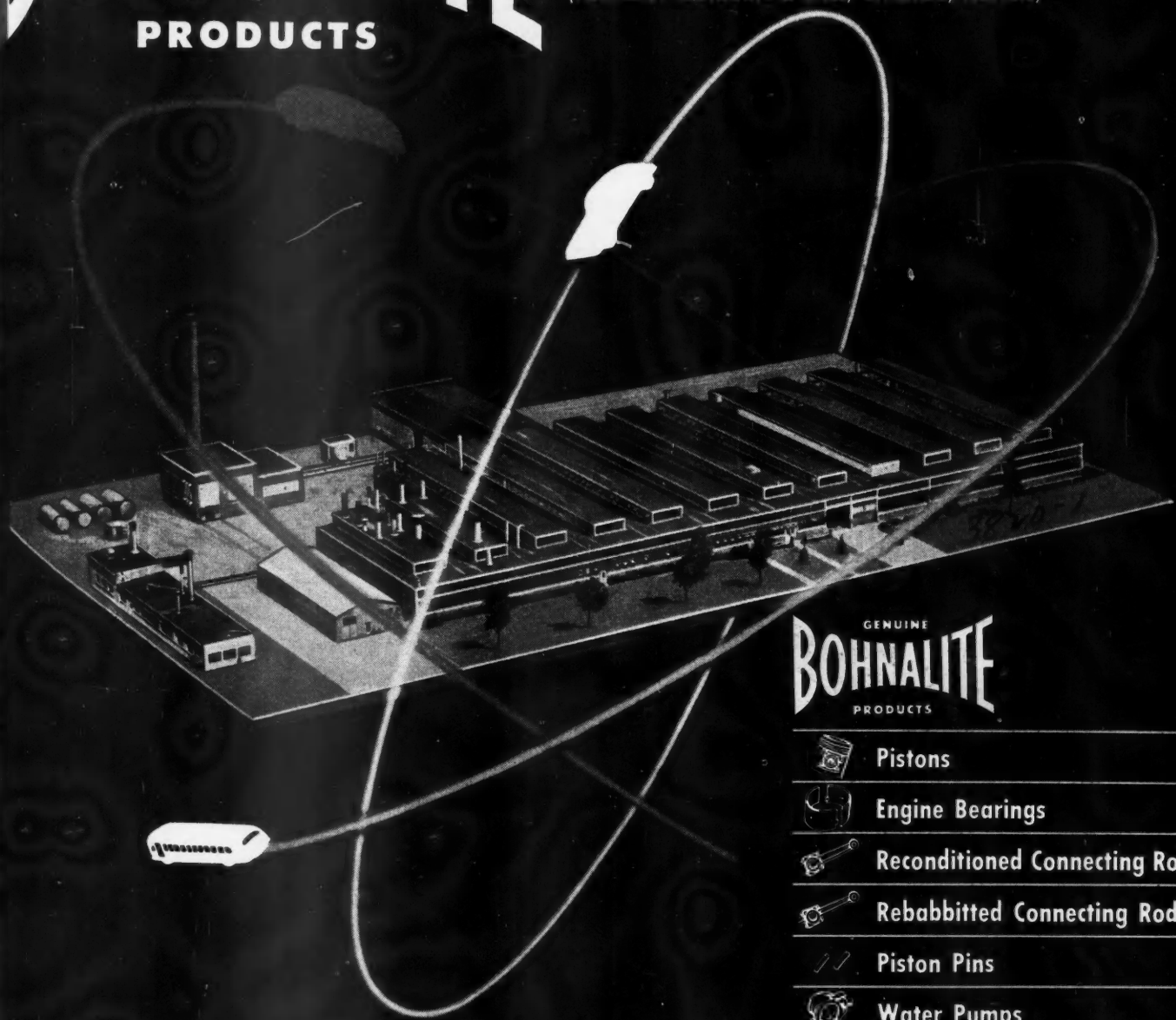
GENUINE

BOHNALITE®

PRODUCTS

NEW SERVICE DIVISION HEADQUARTERS NOW LOCATED AT HOLLAND, MICH.

(FORMERLY CLAWSON & BALS, CHICAGO, ILLINOIS)



GENUINE BOHNALITE PRODUCTS

- Pistons
- Engine Bearings
- Reconditioned Connecting Rods
- Rebabbitted Connecting Rods
- Piston Pins
- Water Pumps
- King Bolts
- Valve Springs
- Rod Dippers
- Water Tubes
- Babbitt Metal
- Bolts
- Nuts
- Shims
- Solders

Our Jobbers Are Able to Give Even Greater Service On Genuine BOHNALITE Products

We are sincerely doing everything possible to help our Jobbers give ever greater service to their customers. As another major step in this direction, The Bohn Aluminum & Brass Corporation has just moved its entire *SERVICE DIVISION* headquarters from Chicago, Illinois, (formerly Clawson & Bals), to Holland, Michigan. This new headquarters for the entire line of genuine *BOHNALITE REPLACEMENT PARTS* combines greatly expanded service facilities with a production "Know-How" backed by over 35 years experience in supplying original equipment for leading makes of cars, trucks and buses. Insist on *GENUINE BOHNALITE PRODUCTS!*

BOHN ALUMINUM & BRASS CORPORATION

Executive Offices • Detroit, Michigan

STANDS, Portable Tools and Parts—cont.

All Steel Welded Truck Co., 1149 Railroad Ave., Rockford, Ill.
Angle Steel Stool Co., 55 Oak St., Plainwell, Mich.
Arsco Mfg. & Sales Corp., 451 Tenth Ave., New York 18, N. Y.
Aurora Equipment Co., Prairie St. at Cleveland Ave., Aurora, Ill. "Equipto."
Auto Sheet Metal Works, 735 E. Gage Ave., Los Angeles 1, Calif. "Trojan."
Campbell Co., H. D., 316 N. Sixth St., Rochelle, Ill. "Handy Andy."
Cornwell Quality Tools Co., Mogadore, Ohio.
Cutler Metal Products Co., 1029 Line St., Camden, N. J.
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
Frick-Gallagher Mfg. Co., 200 W. Second St., Wellston, Ohio. "FGM Rotabin."
Gray Co., 60 11th Ave., N. E., Minneapolis 13, Minn. "Graco Porto-Bench."
Heller Caster Co., 1220 W. Fort St., Detroit 26, Mich.
Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio. "Herbrand," "Van Chrome."
Homestead Valve Mfg. Co. (Hypressure Jenny Div.), Narrows Run Rd., Coraopolis, Pa. "Clean-Tote."
International Engrg. Works, Inc., Mfg. Equip. & Eng. Co. Div., 553 Waverly St., Framingham, Mass. "Meeco."
Kennedy Mfg. Co., N. Harrison St., Van Wert, Ohio.
Lyon Metal Products, Inc., 2931 Montgomery St., Aurora, Ill.
Miller Mfg. Co., 5919 Tireman Ave., Detroit 4, Mich.
New Britain Machine Co., 140 Chestnut St., New Britain, Conn.
Nutting Truck & Caster Co., 1125 W. Division St., Faribault, Minn.
P & C Hand Forged Tool Co., Box S, Milwaukie, Ore.
Penn Metal Corp. of Penna., Oregon Ave. & Swanson St., Philadelphia 48, Pa. "Penco."
Service Caster & Truck Corp., 231 S. La Salle St., Chicago 4, Ill. (Elevating.)
Sherman-Klove Co., 3535 W. 47th St., Chicago 32, Ill. "S-K."
Standard Pressed Steel Co., Jenkintown, Pa. "Hallowell."
Wilson, K. R., 215 Main St., Buffalo 3, N. Y.

STARTING MOTOR DRIVE PARTS—See Drives, Starter; also Parts, Starting Motor Drive

STARTING MOTOR HOUSING—See Housing, Starting Motor

STARTING MOTORS—See Motors, Starting

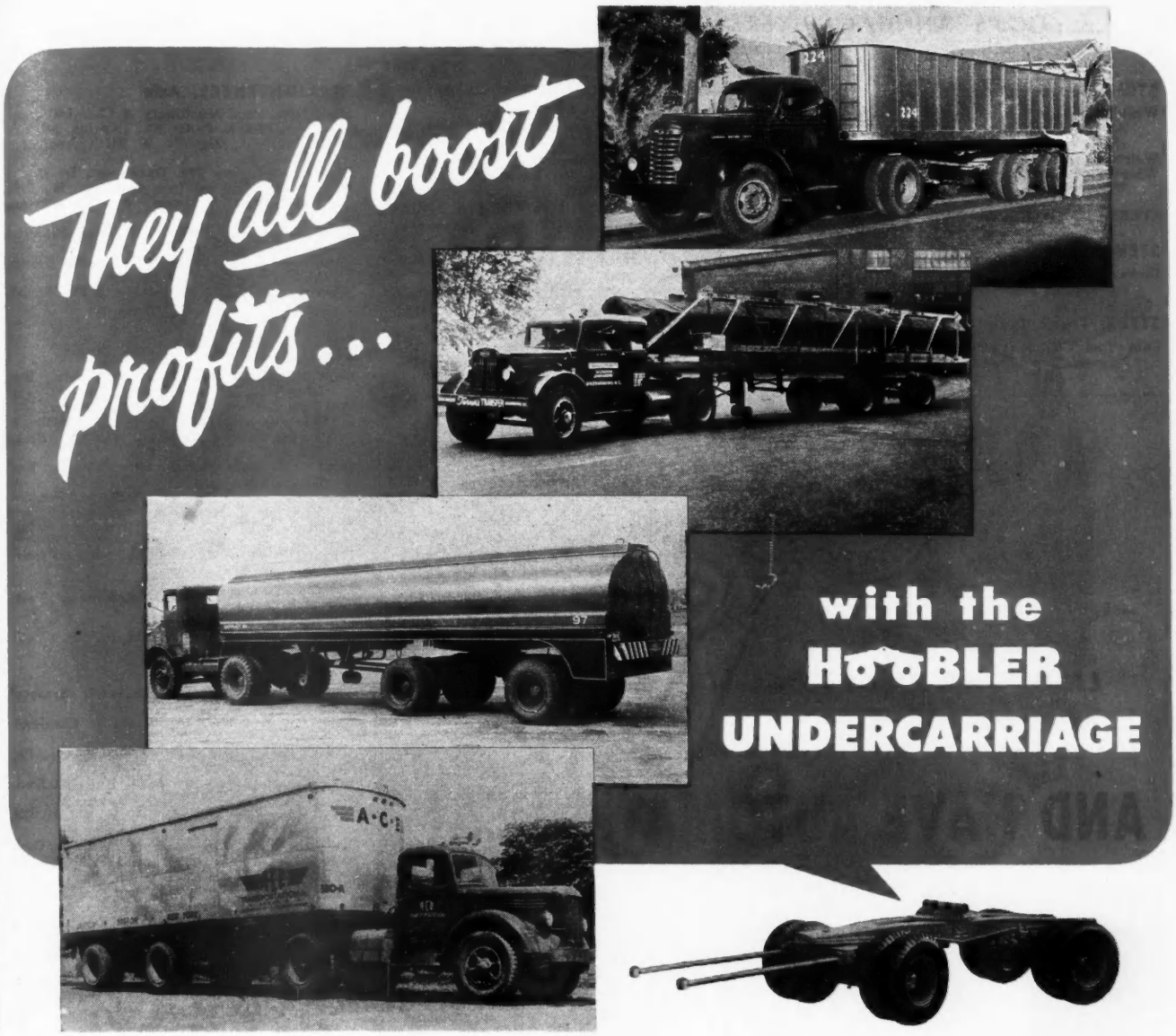
STEEL or IRON, Angle, Channel and Tee

Atlantic Steel Co., 16th & Mecaslin Sts., Atlanta 1, Ga. "Dixisteel." (Steel.)
Bethlehem Steel Co., Bethlehem, Pa.
Carnegie-Illinois Steel Corp., 434 Fifth Ave., Pittsburgh 30, Pa. "USS."
Hynes Steel Products Co., Oakdale Ave., Youngstown, Ohio. (Angle steel.)
Inland Steel Co., 38 S. Dearborn St., Chicago 3, Ill.
Jones & Laughlin Steel Corp., Jones & Laughlin Bldg., Pittsburgh, Pa. (Steel.)
Kawneer Co., 1105 N. Front St., Niles, Mich.
Precision Shapes, Inc., 15 Washington Ave., Suffern, N. Y.
Republic Steel Corp., Republic Bldg., Cleveland 1, Ohio.
Ryerson & Son, Inc., Joseph T., 16th & Rockwell Sts., Chicago, Ill.; 1600 E. Euclid Ave., Detroit, Mich. (Iron.)
Whitehead & Kales Co., 58 Haltiner St., River Rouge, Mich. "W & K."

STEEL, Sheet

Alan Wood Steel Co., Conshohocken, Pa. "A. W. Dynalloy," "Permaclad." (Stainlessclad.)
American Nickeloid Co., Peru, Ill. (Nickel, chrome, copper and brass plated.)
Apollo Metal Works, Inc., Clearing Station, Chicago 38, Ill. (Chromium plated.)
Armco Steel Corp., 703 Curtis St., Middletown, Ohio. (Hot and cold rolled; also electrical.)
Bethlehem Steel Co., Bethlehem, Pa. "Beth Cu Loy."
Caine Steel Co., 1820 N. Central Ave., Chicago 39, Ill.
Carnegie-Illinois Steel Corp., 434 Fifth Ave., Pittsburgh 30, Pa. "USS," "U.S.S. Cor-Ten"; "Hi-Steel." (Licensees.)
Coatesville Plate Washer Co., 1644 Widener Bldg., Philadelphia 7, Pa.
Continental Steel Corp., 1108 S. Main St., Kokomo, Ind.
Eastern Stainless Steel Corp., P. O. Box 1975, Baltimore, Md. (Stainless.)
Great Lakes Steel Corp., Ecorse, Detroit 29, Mich. (Enameled.)
Great Lakes Steel Corp., N-A-X Alloy Div., Detroit 29, Mich. "N-A-X."
Hynes Steel Products Co., Oakdale Ave., Youngstown, Ohio.
Inland Steel Co., 38 S. Dearborn St., Chicago 3, Ill. (Also "Hi-Steel," "Cor-Ten" [Licensee].)
Jones & Laughlin Steel Corp., Jones & Laughlin Bldg., Pittsburgh, Pa.
Mahoning Valley Steel Co., McKees Lane, Niles, Ohio.
Republic Steel Corp., Republic Bldg., Cleveland 1, Ohio. "Enduro" (Stainless); "Republic."
Ryerson & Son, Inc., Joseph T., 16th & Rockwell Sts., Chicago, Ill.; also 1600 E. Euclid Ave., Detroit, Mich.
Sharon Steel Corp., Sharon, Pa.
Superior Sheet Steel Co., Canton, Ohio.
Superior Steel Corp., 3112 Grant Bldg., Pittsburgh 19, Pa. "Su-Veneer." (Copper, monel or nickel coated.)
Tennessee Coal, Iron & Railroad Co., Brown-Marx Bldg., Birmingham, Ala. "USS Cor-Ten."
Universal-Cyclops Steel Corp., Station St., Bridgeville, Pa.

3830-50



WHETHER you operate tankers, high-sides, vans or flat tops (28 feet and over), you can reduce operating costs and increase trucking profits with the Hoobler Undercarriage.

HERE'S WHY

The Hoobler Undercarriage allows the trailer to ease around the tightest corners or travel the straightaways, with practically no scuffing of tires.

"Outrigger" action provides greater stability on curves. Flexible, multiple support absorbs practically all road bumps. Minimum load shifting, loads ride safer.

Highly important, Hoobler 9-foot axle spacing generally permits greater payloads.

Simple in design and construction, quickly inspected, easily serviced, the Hoobler Undercarriage can help *you* make savings every mile, every day, just as it does for users across the country.

For complete information, write The Union Metal Manufacturing Company, Canton 5, O.

UNION METAL

DESIGNERS AND PRODUCERS OF STEEL PRODUCTS SINCE 1906

Builder of The Hoobler Undercarriage

3814-1

STEEL, Sheet—cont.

Washington Steel Corp., Griffith & Woodland Aves., Washington, Pa. "Micro Rold." (Stainless.)
Weirton Steel Co., Weirton, W. Va.
Wheeling Steel Corp., Wheeling Steel Bldg., Wheeling, W. Va.

STEERING GEARS, See Gears, Steering

STENCILS, For Lettering

Dicks Co., C. O., Detroit, Mich. (Lettering for trucks; cut paper masks for spraying.)

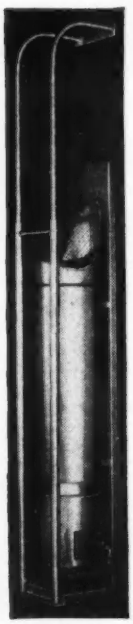
STEPS, Truck Body

Cam Tool Co., 288 21st St., Oakland, Calif. "Kaasco." (Folding.)
Extendo Corp., 4950 Melrose Ave., Los Angeles 27, Calif.
Mesco Products, Crete, Neb. "Mesco Fold-Away." (Folding.)
Midwest Body & Mfg. Div., Electrographic Corp., S. Central St., Paris, Ill. "Handy Step." (Side or rear.)
Safety Step Co., 1041 N. Mansfield Ave., Hollywood 38, Calif. "Saf-T-Step." (Side and rear.)
Truk-Step Co., 928 S. Flower St., Los Angeles 15, Calif.
Turk Corp., C. K., 1122 Meshawaka Ave., South Bend 15, Ind. "Caravan." (Folding.)
Visco-Meter Corp., 315 Grote St., Buffalo 7, N. Y. (Hangs on tire.)
Western Motors, 4834 Cermak Rd., Cicero, Ill.

YOU
LIGHT THE PILOT
SET THE CONTROL . . .

AND HAVE AUTOMATIC HEAT

WITH CARGO-GUARD HEATER STAMPINGS



FIRST: light the pilot burner. Second: set the thermostat at desired temperature. From there on the *automatic* thermostat on CARGO GUARD maintains that temperature without the driver's attention. The propane gas supply is good for 2 to 5 days depending on weather conditions. Dial indicates when replacement is necessary. Now perishable loads can be pay-loads, for CARGO GUARD brings you through with your load *and your profit.*

CONVECTION HEAT WITH BOTTLED GAS

Convection heat is fastest acting, easiest to install, simplest to control. CARGO GUARD HEATER is rated at 20,000 Btu. Burner is located at base of unit. Re-circulating air produces a jet action which boosts a stream of warm protective air into the cargo area. Unit requires *only 1 sq. ft.* of floor space Load Guide protects heater and prevents cargo shifting. Write today for complete details.

MAIL TODAY

CARGO GUARD COMPANY—A DIVISION OF SPECIALISTS IN BOTTLED GAS PRODUCTS STAMPINGS

CARGO GUARD COMPANY, 315 WEST 4th ST., DAVENPORT, IOWA CJ
Gentlemen: Please send more information on CARGO GUARD HEATER
☐ Common Carrier; ☐ Contract Carrier; ☐ Private Fleet; ☐ Other
Cargo you want to protect? _____
YOUR NAME _____
FIRM NAME _____
CITY _____ STATE _____

STRAIGHTENERS, Axle

Bean Div., Food Machinery & Chemical Corp., John, 1305 S. Cedar St., Lansing, Mich.
Bear Mfg. Co., 21st St. & Fifth Ave., Rock Island, Ill.
Bee-Line Co., Box 569, Davenport, Iowa.
Builders Ornamental Iron Co., 4655 W. Arthington St., Chicago 44, Ill. "Frame Master."
Chief Alinement Corp., 440 13th St., Rock Island, Ill.
Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill.

STRAIGHTENERS, Frame

Bear Mfg. Co., 21st St. & Fifth Ave., Rock Island, Ill.
Bee-Line Co., Box 569, Davenport, Iowa.
Builders Ornamental Iron Co., 4655 W. Arthington St., Chicago 44, Ill. "Frame Master."
Chief Alinement Corp., 440 13th St., Rock Island, Ill.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. (Hydraulic, combination body and frame.)

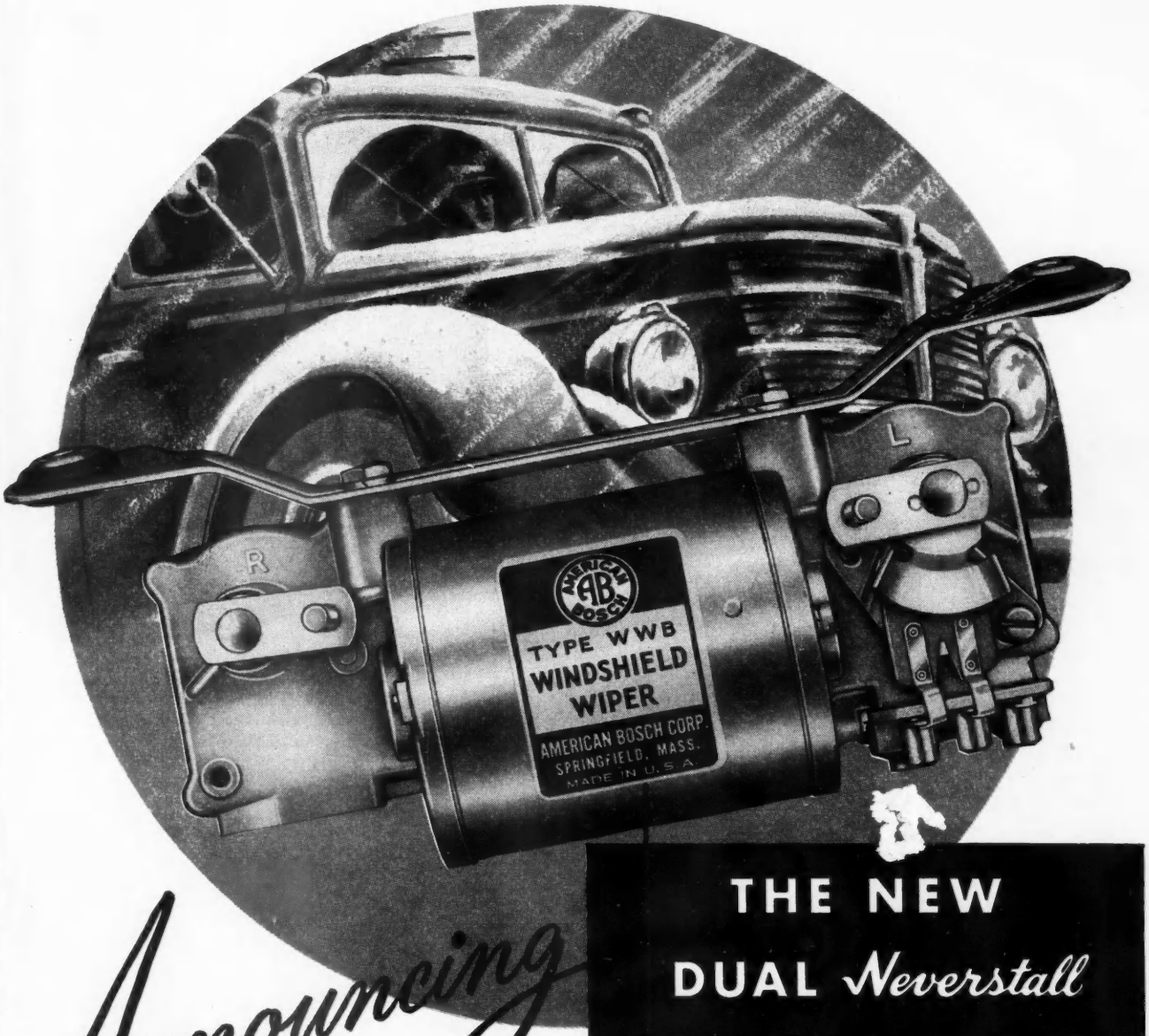
STRAIGHTENERS, WHEEL, See Presses, Straightening (Wheel)

STRIPPERS, Paint, See Removers, Paint, Enamel and Varnish

STUDS

Brown Corp., 213 Bellevue Ave., Syracuse, N. Y.
Budd Co., Wheel Div., 12141 E. Charlevoix Ave., Detroit 14, Mich. (Truck.)
Central Screw Co., 3501 S. Shields Ave., Chicago 9, Ill.
Champ-Items, Inc., 6191 Maple Ave., St. Louis, Mo. (Oversize rear wheel hub.)
Chicago Screw Co., 1026 S. Homan Ave., Chicago 24, Ill.
Clark Bros. Bolt Co., Canal St., Milldale, Conn.
Cleveland Cap Screw Co., 2921 E. 79th St., Cleveland 4, Ohio. "Cle-Cap."
Dorman Products, Inc., 1004 Sycamore St., Cincinnati 2, Ohio.
Ferry Bros., 3167 Fulton Rd., Cleveland 9, Ohio.
Ferry Cap & Set Screw Co., 2151 Scranton Rd., Cleveland 13, Ohio. "Shinylands."
Ferry Screw Products, Inc., E. W. Brookpark (Berea), Ohio.
Hartford Machine Screw Co., 476 Capitol Ave., Hartford, Conn.
Haskell Mfg. Co., Wm. H., 24 Commerce St., Pawtucket, R. I.
Haydon A. & M., 304 N. 22nd St., Philadelphia 3, Pa.
Hill Nut Co., 2620 W. Flournoy St., Chicago 12, Ill.
Lamson & Sessions Co., 1971 W. 85th St., Cleveland 2, Ohio.
Lok Thread Corp., 2832 E. Grand Blvd., Detroit 11, Mich. (Self-locking thread—licensors.)
Lundberg Screw Products Co., P. O. Box 1318, Lansing 4, Mich.
Mac It Parts Co., Shippen & Liberty Sts., Lancaster, Pa.
Mid-West Screw Products Co., 3662 Park Ave., St. Louis 10, Mo.
National Screw & Mfg. Co., 2440 E. 75th St., Cleveland 4, Ohio. (Also "Lok-Thred" self-locking—licensees.)
Nelson Stud Welding Div. of Morton Gregory Corp., Toledo Ave. & E. 28th St., Lorain, Ohio. (End-welded; sole distributor Nelson Sales Co., Toledo Ave. & E. 28th St., Lorain, Ohio.)
O'Hara Bros. Machine Co., 6533 Upland St., Philadelphia 42, Pa.
Oliver Iron & Steel Corp., 1001 Muriel St., Pittsburgh, Pa.
Ottemiller Co., Wm. H., Pattison St. & M. & P. R. R., York, Pa.
Pawtucket Mfg. Co., 327 Pine St., Pawtucket, R. I.
Prior Products, Inc., 4828 Racell St., Dallas, Tex.
Rhode Island Tool Co., 148 W. River St., Providence 1, R. I.
Rockford Screw Products Co., 2501 Ninth St., Rockford, Ill.
Sterling Bolt Co., 209 W. Jackson Blvd., Chicago 6, Ill.
Wasmer Bolt & Screw Corp., 1300 Athens Ave., Cleveland, Ohio.

3213-50



Announcing THE NEW DUAL *Neverstall* ELECTRIC WIPER

THE new dual American Bosch electric wiper was developed with just one thought—to supply trucks with the finest in windshield wiper performance. Powerful electric drive eliminates faltering or stalling during acceleration or on steep grades. Rugged, heavy-duty construction assures long years of reliable, trouble-free operation. Already selected as original equipment by leading truck makers, the new *dual* Neverstall means greater safety for driver, cargo and vehicle under all conditions. Currently available for late model Chevrolet, Ford, GMC, International and other trucks and truck tractors. Write today for complete specifications and application data.

CHECK THESE FEATURES

- ✓ Synchronized operation of two wiper arms and blades
- ✓ Tandem or opposed motion
- ✓ Winter power — 30 in/lbs torque per blade
- ✓ Electric Drive assures steady wiping action regardless of engine speed or load
- ✓ Blades park automatically
- ✓ Two-speed operation
- ✓ Automatic thermal cutout
- ✓ Wiping angle up to 118°
- ✓ Arms to 12" — blades to 14"

AMERICAN BOSCH CORPORATION • SPRINGFIELD 7, MASSACHUSETTS

3830-1

PATENTS PENDING

THE NEW Prior

Here's the greatest Safety Tank Set ever made! It gives up to 150 gallons capacity! This is a substantial increase over any previous Prior set and enables the truck operator to further cut costs by filling up "at home" and taking advantage of bulk gasoline prices.

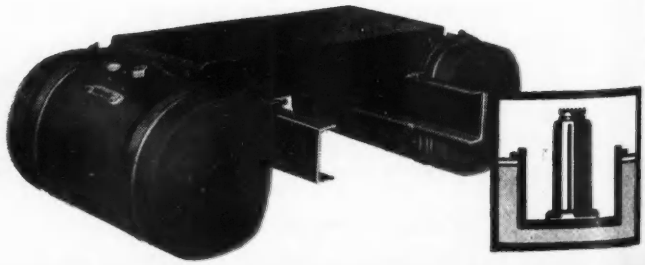
This increased capacity is largely brought about by extending the tank across the top of the truck frame. This extension does double duty, acting as a catwalk with a 4-way non-skid cover and contains a substantial quantity of gasoline.

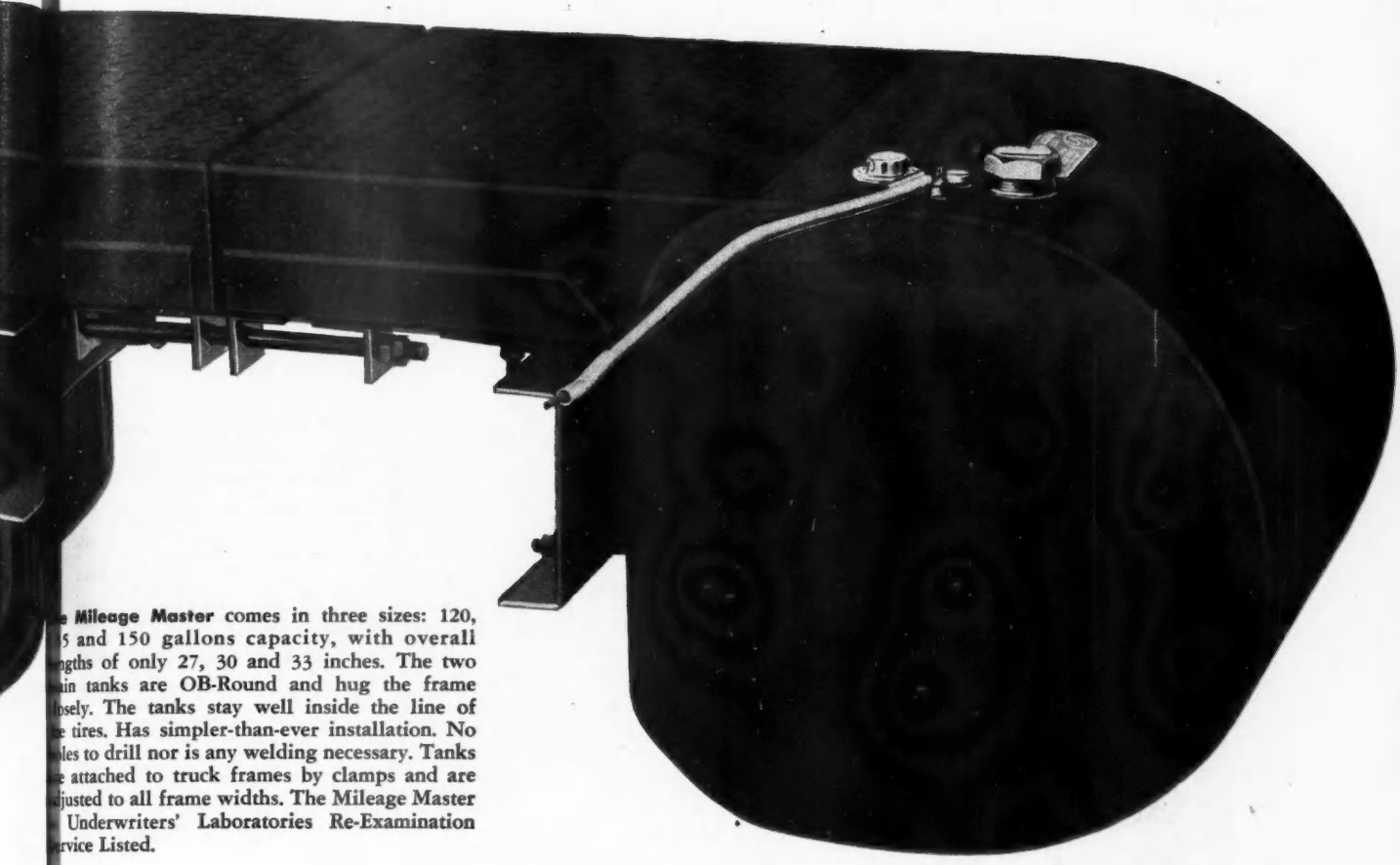
ALL

Prior Tanks

CUT COSTS!

Prior OB-Round Set including spacious tool chest with Jack Well which keeps hydraulic jack upright and out of the weather.





e Mileage Master comes in three sizes: 120, 5 and 150 gallons capacity, with overall ngths of only 27, 30 and 33 inches. The two ain tanks are OB-Round and hug the frame ose ly. The tanks stay well inside the line of e tires. Has simpler-than-ever installation. No les to drill nor is any welding necessary. Tanks e attached to truck frames by clamps and are justed to all frame widths. The Mileage Master Underwriters' Laboratories Re-Examination rvice Listed.

MILEAGE MASTER!

RELIEVES TORQUE

The two main tanks are completely separated. This not only relieves torque but makes it possible to replace either side in case of collision.

Like all other Prior sets, the Mileage Master comes equipped ready for installation of either electric or visual gauge. A cover plate, secured by six screws, can be removed and the desired gauge installed in a few minutes.

722-2

REG. U. S. PAT. OFF.

d-Fill OB-Round Tank has adjustable ller neck for under body mounting on y panel, stake or dump body truck.

MAIL TODAY

TO NEAREST ADDRESS

PRIOR PRODUCTS, Inc. Box 349, Middletown, Ohio
Box 7608, Dallas, Texas

Please send me complete information on the Prior Mileage Master and the name of your nearest distributor.

Name _____

Street 02 . 2 ft 6

City _____

STUDS—cont.

Wennett-Gordon Mfg. Co., 35 India St., Boston, Mass. "Wengo." (Oversize transmission, for Chevrolet cars.)
Western Automatic Machine Screw Co., 752 Lake Ave., Elyria, Ohio.

SUSPENSION UNITS, AXLE (FOR TRAILERS)—See Axle Suspension Units, for Trailers

SWITCHES, Direction Indicating Signal

Arrow Safety Device Co., Mt. Holly, N. J.
Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass.
Delco-Remy Div., General Motors Corp., Anderson, Ind.
Douglas Mfg. Co., Railroad St., Bronson, Mich.
Grizzly Mfg. Co., 700 W. Caroline St., Paulding, Ohio.
Grote Mfg. Co., Lafayette & Grandview Aves., Bellevue, Ky.
Ideal Clamp Mfg. Co., 435 Liberty Ave., Brooklyn 7, N. Y.
K-D Lamp Co., 1910 Elm St., Cincinnati 10, Ohio.
Pollak Corp., Joseph, 75 Freeport St., Boston, 22, Mass.
Signal-Stat Corp., 1430 Herkimer St., Brooklyn 33, N. Y.
United Specialties Co., Mitchell Div., Shelmire & Edmund Sts. (Holmesburg), Philadelphia 36, Pa.

SWITCHES, Floor or Foot

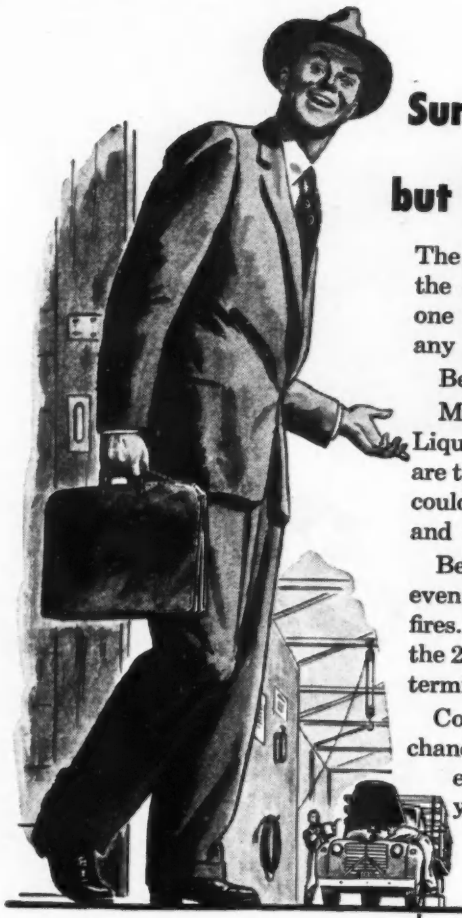
Alloy Mfg. Co., 3207 S. Shields Ave., Chicago 16, Ill. "Quality Built." (Headlight dimming.)
Andrews Mfg. Co., 924 S. Theresa Ave., St. Louis 3, Mo.
Automotive Specialty Corp., 1562 DeKalb Ave., Brooklyn 27, N. Y. "Tasco." (Headlight dimming, foot operated.)
Clum Mfg. Co., 601 W. National Ave., Milwaukee, Wis.
Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass.
Delco-Remy Div., General Motors Corp., Anderson, Ind. (Foot dimming.)
Electric Auto Lite Co., Toledo 1, Ohio.
F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill. "Filko." (Headlight dimming.)
Freedco Products, Inc., 154 Nassau St., New York, N. Y.
General Automotive Specialty Co., 599 11th Ave., New York 19, N. Y. "Gasco." (Headlight dimming.)
Ideal Clamp Mfg. Co., 435 Liberty Ave., Brooklyn 7, N. Y. (Headlight dimming.)
K-D Lamp Co., 1910 Elm St., Cincinnati 10, Ohio.
Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich. "Mapco." (Headlight dimming.)
National Ignition Mfg. Co., 521 W. 23rd St., New York, N. Y.
New York Coil Co., Mont Clare, Pa. (Headlight dimming, foot operated.)
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill. (Headlight dimming.)
P & D Mfg. Co., 1902 Steinway St., Long Island City, L. I., N. Y. (Headlight dimmer.)
Pollak Corp., Joseph, 75 Freeport St., Boston 22, Mass.
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
R-B-M Div., Essex Wire Corp., Chestnut & Hanna Sts., Logansport, Ind. (Headlight dimming, foot operated.)
Soreng Mfg. Corp., 1901 Clybourn Ave., Chicago 14, Ill.
Standard Motor Products, Inc., 3718 Northern Blvd., Long Island City, L. I., N. Y. "Blue Streak." (Headlight dimming.)
Zaiger Corp., 589 Essex St., Lynn, Mass. "Hi-Amp."

SWITCHES, Heater

Clum Mfg. Co., 601 W. National Ave., Milwaukee, Wis.
Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass.
Culver-Stearns Mfg. Co., 53 Grafton St., Worcester 8, Mass.
F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill.
General Automotive Specialty Co., 599 11th Ave., New York 19, N. Y. "Gasco."
Griffin Lamp Co., 401 S. Third St., Hamilton, Ohio.
Guaranteed Parts Co., Seneca Falls, N. Y.
Ideal Clamp Mfg. Co., 435 Liberty Ave., Brooklyn 7, N. Y.
K-D Lamp Div., Noma Electric Corp., 1910 Elm St., Cincinnati 10, Ohio.
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.
Pollak Corp., Joseph, 75 Freeport St., Boston 22, Mass.
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
Soreng Mfg. Corp., 1901 Clybourn Ave., Chicago 14, Ill.
Standard Motor Products, Inc., 3718 Northern Blvd., Long Island City, N. Y.
Zaiger Corp., 589 Essex St., Lynn, Mass. "Hi-Amp."

SWITCHES, Ignition

Automotive Mfg. Co., 570 W. Fulton St., Chicago 22, Ill. "Amko."
Bendix-Scintilla—See Scintilla Magneto Div. of Bendix Aviation Corp.
Briggs & Stratton Corp., 2711 N. 18th St., Milwaukee 1, Wis.
Clum Mfg. Co., 601 W. National Ave., Milwaukee, Wis.
Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass.
Decker Co., Richard M., 919 N. Michigan Ave., Chicago, Ill.
Delco-Remy Div., General Motors Corp., Anderson, Ind.
Douglas Mfg. Co., Railroad St., Bronson, Mich.
Electric Auto-Lite Co., Toledo 1, Ohio.
Engineered Products, Inc., Denver, Colo. "Oiltrol"—activated switch.
F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill.



Sure, you're protected—
but HOW WELL?

The *right* fire extinguisher can mean the difference between a big fire and one that's snuffed out before it does any damage.

Be sure yours are *right!*

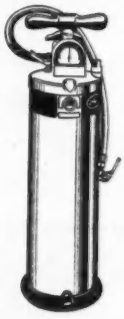
Make them PYRENE* Vaporizing Liquid Extinguishers . . . because these are the finest all-around protection you could buy for buses, trucks, garages, and terminals.

Be sure they are *big enough* to douse even hard-to-control gasoline and oil fires. Larger trucks and buses require the 2 qt. size; tank trucks, garages, and terminals, the 1 gal. size.

Costs are too high for you to take chances with fire! Recheck your own extinguisher requirements, and call your PYRENE distributor *today*.

*T. M. Reg. U. S. Pat. Off.

STANDARD PROTECTION for smaller vehicles and garages . . . pump-type PYRENE Vaporizing Liquid Extinguishers. Shock-absorber construction. 1 qt. and 1½ qt. sizes. Heavy vehicle or wall-type brackets. Liquid is non-damaging.



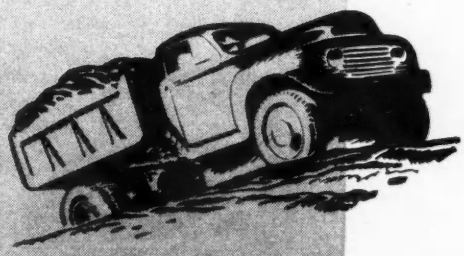
FOR LARGE TRUCKS AND GARAGES . . . 2 qt. and 1 gal. PYRENE Vaporizing Liquid Extinguishers. Approved for flammable liquid and electrical fires. Operated by stored air pressure. Large capacity, long range, heavy duty construction.

Also Foam, Soda-Acid, and Cartridge-Operated Extinguishers, and Air Foam Playpipes

PYRENE MANUFACTURING COMPANY
589 Belmont Ave. **Newark 8, N. J.**
Affiliated with C-O-Two Fire Equipment Co.

Pyrene FIRE EXTINGUISHERS

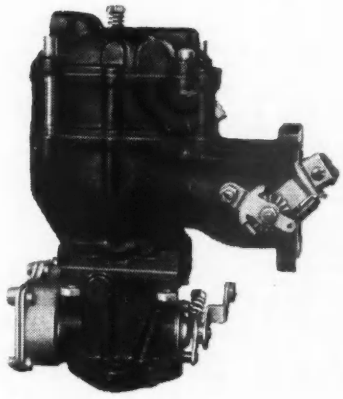
2730-50



Because Heavy Duty Carburetion is a Specialized Job . . .

Zenith

is the Engineers' Choice!



The year-in, year-out preference of engineers for Zenith* points up one outstanding fact—that *heavy duty carburetion is a specialized job.* For these experienced engineers know that Zenith is not a jack-of-all-trades, but is, instead, a master in its particular field—a master of fuel economy, of general efficiency, and of consistently dependable and trouble-free operation. For *your* heavy duty equipment, insist on Zenith—the Engineers' choice for consistently top notch performance.

*REG. U.S. PAT. OFF.

ZENITH CARBURETOR DIVISION OF
696 Hart Avenue • Detroit 14, Michigan
MANUFACTURERS OF FINE CARBURETORS AND FUEL FILTERS

Bendix
AVIATION CORPORATION

1845-1

SWITCHES, Ignition—cont.

Freedco Products, Inc., 154 Nassau St., New York, N. Y.
General Automotive Specialty Co., 599 11th Ave., New York 19, N. Y. "Gasco."
Ideal Clamp Mfg. Co., 435 Liberty Ave., Brooklyn 7, N. Y.
Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich. "Mapco."
Manhattan Coil Corp., 1486 Lakewood Ave., S. E., Atlanta 1, Ga.
Motive Equipment Mfrs., Inc., 5253 W. Roosevelt Rd., Chicago 50, Ill. "Pilot." (For Ford, Chevrolet and Plymouth cars.)
Pollak Corp., Joseph, 75 Freeport St., Boston 22, Mass.
Scintilla Magneto Div. of Bendix Aviation Corp., Sherman Ave., Sidney, N. Y. "Bendix-Scintilla."
Soreng-Manegold Co., 1901 Clybourn Ave., Chicago, Ill.
Sorensen Mfg. Co., P., 32-31 57th St., Woodside, N. Y.
Synchro-Start Products, Inc., 1046 W. Fullerton St., Chicago 14, Ill. (Automatic.)
United Specialties Co., Mitchell Div., Shelmire & Edmund Sts. (Holmesburg), Philadelphia 36, Pa.

SWITCHES, Ignition (Cut-Off)

Engineered Products, Inc., 1224 Speer Blvd., Denver, Colo. "Oiltrol." (Activated switch.)
Durakool, Inc., 1010 N. Main St., Elkhart, Ind. "Tipover."

TESTING TESTING TESTING

Day and night, around the clock, Pennsylvania's hills are the testing ground for MOLD-BLOK brake linings and blocks.

Under actual driving conditions, in all types of weather, the testing goes on with 21,000 pounds of G.V.W. Only the most modern equipment is used to prove the correct application for every truck, trailer or bus.

Is it any wonder why MOLD-BLOK is used with confidence on thousands of heavy duty units throughout the country? And is giving longer, more economical service under the most difficult conditions?

THIS IS PROVEN PERFORMANCE!

- NON SQUEAL
- LOWER COST PER MILE TO OPERATE
- UNIFORM CO-EFFICIENT OF FRICTION
- NON-SCORING OF DRUMS

MOLDED MATERIALS DIVISION
OF
CARLISLE CORPORATION
RIDGWAY, PA.

SWITCHES, Light

Automotive Mfg. Co., 570 W. Fulton St., Chicago 22, Ill. "Amko."
Automotive Specialty Corp., 1562 DeKalb Ave., Brooklyn 27, N. Y. "Tasco."
Briggs & Stratton Corp., 2711 N. 13th St., Milwaukee 1, Wis.
Clum Mfg. Co., 601 W. National Ave., Milwaukee, Wis.
Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass.
Connecticut Telephone & Electric Corp., Tiffany Div., 70 Britannia St., Meriden, Conn.
Culver-Stearns Mfg. Co., 53 Grafton St., Worcester 8, Mass.
Cutler-Hammer, Inc., 315 N. 12th St., Milwaukee 1, Wis. "C-H."
Delco-Remy Div., General Motors Corp., Anderson, Ind.
Delta Electric Co., 33rd & Nebraska Sts., Marion, Ind. (For dome lights.)
Douglas Mfg. Co., Railroad St., Bronson, Mich.
F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill.
General Automotive Specialty Co., 599 11th Ave., New York 19, N. Y. "Gasco."
Griffin Lamp Co., 401 S. Third St., Hamilton, Ohio.
Guaranteed Parts Co., Seneca Falls, N. Y.
Ideal Clamp Mfg. Co., 435 Liberty Ave., Brooklyn 7, N. Y.
K-D Lamp Co., 1910 Elm St., Cincinnati 10, Ohio.
Kilborn-Sauer Co., Post Rd., Fairfield, Conn. "K-S."
National Ignition Mfg. Co., 521 W. 23rd St., New York, N. Y.
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.
Pollak Corp., Joseph, 75 Freeport St., Boston 22, Mass.
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
R-B-M Div., Essex Wire Corp., Chestnut & Hanna Sts., Logansport, Ind.
Soreng Mfg. Corp., 1901 Clybourn Ave., Chicago 14, Ill.
Standard Motor Products, Inc., 3718 Northern Blvd., Long Island City, N. Y.
Watts Electric & Mfg. Co., 2222 E. Maple Rd., Birmingham, Mich.
Zaiger Corp., 589 Essex St., Lynn, Mass. "Hi-Amp."

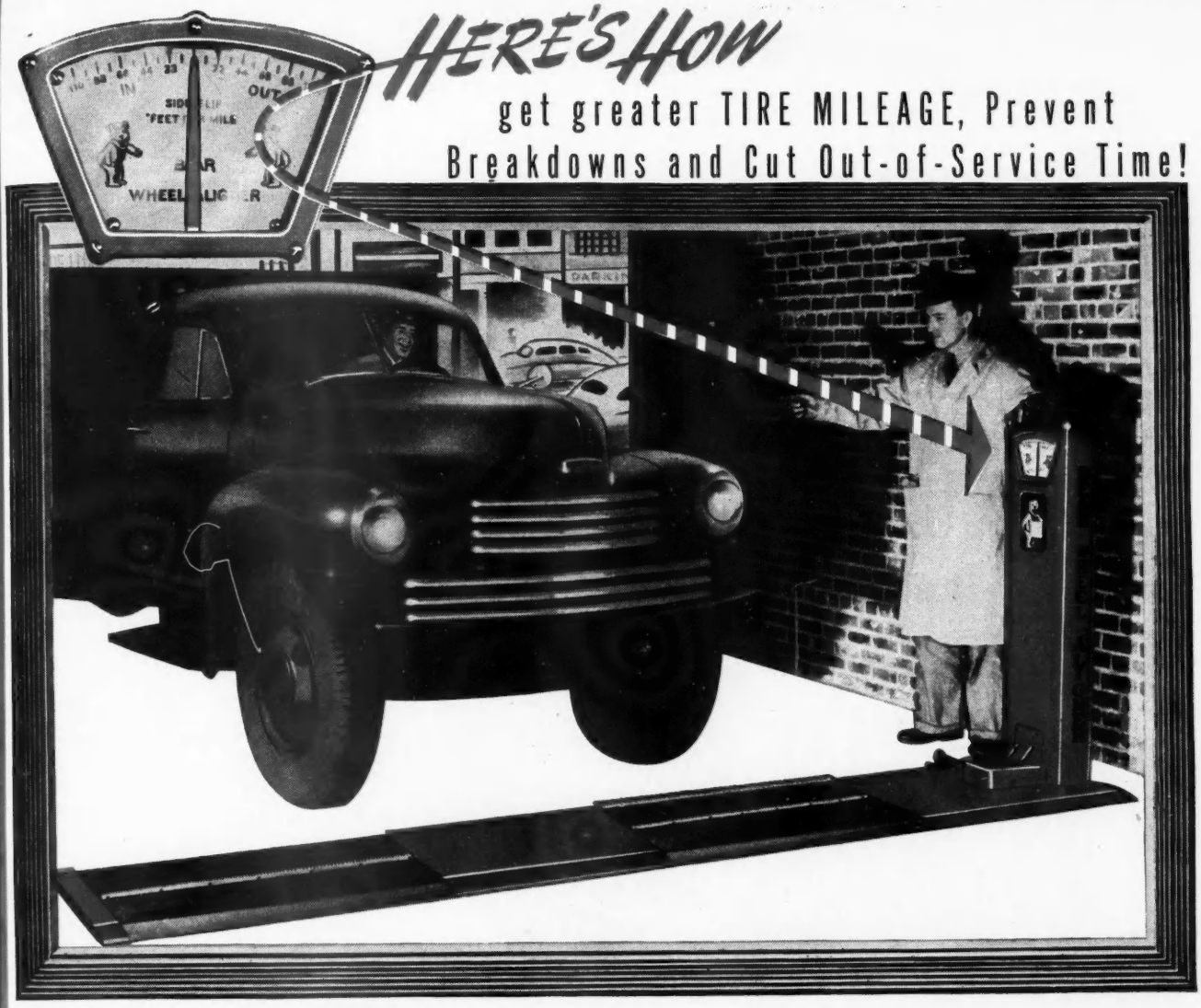
SWITCHES, Starter

American Motor Products Co., Fond du Lac, Wis. "Ampco."
Andrews Mfg. Co., 924 S. Thersea Ave., St. Louis 3, Mo.
Automotive Specialty Corp., 1562 DeKalb Ave., Brooklyn 27, N. Y. "Tasco."
Clum Mfg. Co., 601 W. National Ave., Milwaukee, Wis.
Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass.
Delco-Remy Div., General Motors Corp., Anderson, Ind.
Electra Mfg. Co., 2537 Madison Ave., Kansas City 8, Mo.
Electric Auto-Lite Co., Champlain & Chestnut Sts., Toledo 1, Ohio. "Auto-Lite."
F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill. "Filko." (Solenoid.)
Freedco Products, Inc., 154 Nassau St., New York, N. Y.
General Automotive Specialty Co., 599 11th Ave., New York 19, N. Y. "Gasco."
Guaranteed Parts Co., Seneca Falls, N. Y. "GP."
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.
Leece-Neville Co., 5363 Hamilton Ave., Cleveland 14, Ohio. "L-N."
Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich. "Mapco."
Manhattan Coil Corp., 1486 Lakewood Ave., S. E., Atlanta 1, Ga.
Monarch Insulated Wire Co., 491 Broadway, New York 12, N. Y.
National Ignition Mfg. Co., 521 W. 23rd St., New York, N. Y.
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.
P & D Mfg. Co., 1902 Steinway St., Long Island City, L. I., N. Y.
Pollak Corp., Joseph, 75 Freeport St., Boston 22, Mass.
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
R-B-M Div., Essex Wire Corp., Chestnut & Hanna Sts., Logansport, Ind.
Shurhit Products, Inc., Waukegan, Ill.
Soreng Mfg. Corp., 1901 Clybourn Ave., Chicago 14, Ill.
Sorensen Mfg. Co., 32-31 57th St., Woodside, N. Y.
Standard Motor Products, Inc., 3718 Northern Blvd., Long Island City, L. I., N. Y.
Wells Mfg. Corp., 200 W. Division St., Fond du Lac, Wis.

1945-50

HERE'S HOW

get greater TIRE MILEAGE, Prevent Breakdowns and Cut Out-of-Service Time!



the money-saving "240" Alinement Tester costs you only $275.00*

*Slightly higher West of the Rockies.

LOOK at these FEATURES

- ✓ Extremely sensitive—engineered to give *correct* readings.
- ✓ Completely automatic—trip lever resets to zero before each test.
- ✓ Lies close to the floor—uses a minimum of space.
- ✓ No installation or operating expense—*no pipes—no wires.*
- ✓ Easy-to-read eye *level dial* that the driver can see from his cab
- ✓ Serrated blades for *perfect* grip on tires.
- ✓ part of the Nationally Advertised Bear Safety Service.

BEAR THE BANNER of SAFETY

POST

R-3029 FORR.

Expose all of your motor vehicles to this accurate Alinement Test every time they enter your shop!

Prevent tire wear and costly breakdowns *before* they occur. You can get up to 50% more mileage out of tires with proper wheel alinement . . . you can reduce wear and breakage of parts by correcting mis-alinement as it occurs.

The Bear "240" Wheel Alinement Tester affords the most economical and positive means of checking wheel alinement in your shop. Accurate, dependable tests are made automatically and instantly every time your cars, trucks or buses enter your shop or garage.

BEAR STEERING SERVICE FRAME & AXLE STRAIGHTENING

With the Bear Drive-Over Alinement Tester, your mechanics or drivers check alinement while the vehicle is *in motion*—as driven on the road. That's important . . . it's the right way to test all cars, trucks and buses. The Bear "240" Tester checks side slippage per mile, showing toe-in or toe-out conditions. It also detects the presence of a bent rear housing or other conditions causing mis-alined wheels. Here's a unit that can make real savings in your operating costs.

See your Bear Jobber or write for the illustrated "240" Bulletin TODAY. BEAR MFG. CO., Dept. C-3, Rock Island, Illinois.

BEAR SAFETY SERVICE

Trade Mark Reg. U. S. Pat. Off.

WHEEL ALINEMENT · DY-NAMIC BALANCING · HEADLIGHT TESTING · BRAKE TESTING

3860-1

SWITCHES, Stop Light

American Motor Products Co., Fond du Lac, Wis. "Ampco."
Automotive Specialty Corp., 1562 DeKalb Ave., Brooklyn 27, N. Y. "Tasco."
Bendix-Westinghouse Automotive Air Brake Co., 901 Cleveland Rd., Elyria, Ohio. (Air.)
Clum Mfg. Co., 601 W. National Ave., Milwaukee, Wis.
Cole-Hersee Co., 20 Old Colony Ave., Boston 27, Mass.
Delta Electric Co., 33rd & Nebraska Sts., Marion, Ind.
Douglas Mfg. Co., Railroad St., Bronson, Mich.
Electric Auto-Lite Co., Bay Mfg. Div., Bay City, Mich.
Fasco Industries, Inc., 400 Davis St., Rochester 2, N. Y.
Guaranteed Parts Co., Seneca Falls, N. Y. "GP."
Kelsey-Hayes Wheel Co., 3600 Military Ave., Detroit 32, Mich. "Lathan." (Trailer.)
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.
Kilborn-Sauer Co., Post Rd., Fairfield, Conn. "K-S."
Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich. "Mapco."
Motive Equipment Mfrs., Inc., 5253 W. Roosevelt Rd., Chicago 50, Ill. "Pilot."
Murray Corp., Towson 4, Md.
National Ignition Mfg. Co., 521 W. 23rd St., New York, N. Y.
P & D Mfg. Co., 1902 Steinway St., Long Island City, L. I., N. Y.
Perfection Automotive Products Corp., 925 W. Elizabeth St., Detroit 1, Mich.
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
R-B-M Div., Essex Wire Corp., Chestnut & Hanna Sts., Logansport, Ind.
Soreng Mfg. Corp., 1901 Clybourn Ave., Chicago 14, Ill.
Sorensen Mfg. Co., P., 32-31 57th St., Woodside, N. Y.
Standard Motor Products, Inc., 37-18 Northern Blvd., Long Island City 1, Long Island, N. Y.
United Parts Mfg. Co., 1250 W. Van Buren St., Chicago, Ill.
Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo. "Lockheed."
Wells Mfg. Corp., 200 W. Division St., Fond du Lac, Wis.
Yankee Metal Products Corp., 31 Grand St., Norwalk, Conn.

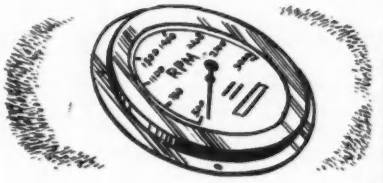
SYNCHRONIZERS, See Instruments, Distributor Testing

TACHOMETERS, Engine Testing

Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13F, Mich. (Electric.)
Electric Heat Control Co., 9115 Inman Ave., Cleveland 5, Ohio. "King."
Electro Products Co., 445 E. 189th St., New York 58, N. Y.
Lanagan & Hoke, 431 E. Collom St., Philadelphia 44, Pa. (Electric.)
Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ill. (Electric.)
Weidenhoff, Inc., Joseph, 4340 W. Roosevelt Rd., Chicago 24, Ill.

TACHOMETERS, Speed

AC Spark Plug Div., General Motors Corp., 1300 N. Dort Highway, Flint 2, Mich. (Electric.)
Amthor Testing Instrument Co., 45a Van Sinderen Ave., Brooklyn 7, N. Y.
Bailey Meter Co., 1050 Ivanhoe Rd., Cleveland 10, Ohio.
Bristol Co., Waterbury 91, Conn.
Corbin Screw Div., American Hardware Corp., 227 High St., New Britain, Conn.
Eclipse-Pioneer Div., Bendix Aviation Corp., Teterboro, N. J.
Electric Auto-Lite Co., Toledo 1, Ohio.
Esterline-Angus Co., P. O. Box 596, Indianapolis 6, Ind.
Ideal Industries, Inc., 1014 Park Ave., Sycamore, Ill.
Jones-Motrola Corp., 432 Fairfield Ave., Stamford, Conn. "Jones."
Martindale Electric Co., 1340 Hird Ave., Cleveland 7, Ohio.
Minneapolis-Honeywell Regulator Co., Brown Instrument Div., Wayne & Roberts Aves., Philadelphia 44, Pa.



Stewart-Warner Corp., 1826 Diversey Parkway, Chicago, Ill.
Sticht Co., Herman H., 27 Park Place, New York, N. Y. "Standco."
Sun Electric Corp., 6323 Avondale Ave., Chicago 31, Ill.
Veeder-Root, Inc., 20 Sargeant St., Hartford 2, Conn.
Waltham Watch Co., Waltham, Mass.
Zernickow Co., O., 15 Park Row, New York 7, N. Y. "O-Z."

TACHOGRAPHS, See Recorders, Vehicle Movement

TAILGATE LOADERS, See Loaders, Truck (Elevating Tailgate)

TAIL PIPES, See Pipes, Tail and Exhaust

TAKE-OFFS, Power

Adams Engineering Co., 1969 E. 119th St., Cleveland 6, Ohio.
American Coach & Body Co., 9503 Woodland Ave., Cleveland 4, Ohio.
Braden Winch Co., 1001 E. Admiral Blvd., Tulsa 3, Okla.
Cemco Industries, Inc., First National Bank Bldg., Gallion, Ohio.
Chelsea Products Inc., 21 Buchanan St., Chelsea, Mich.

Nothing Decarbonizes and Cleans CYLINDER HEADS, CARBURETORS, PARTS Like...

HYDRO-SEAL

GUNK Dunk

Gunk Hydro-Seal Truck and Bus cylinder head cleaning kit. Large enough to take nearly all standard assemblies. Makes purchase of cleaning tanks unnecessary for many shops.

A WORD OF CAUTION
If it doesn't bear the Genuine GUNK Nameplate, it may be a partly diluted imitation — and will not give you the Safety and Advantages of Genuine GUNK and should be flatly refused.

1. Quickly digests and removes carbon gum, paint, lead, makes possible accurate visual inspection and fitting of delicate metering mechanisms, jets and orifices.
2. Lasts more than one year . . . due to Hydro-Seal.
3. Automatic rinsing.
4. Works hot or cold.

Sold by better jobbers everywhere

WIDENING USE FOR LABOR SAVER

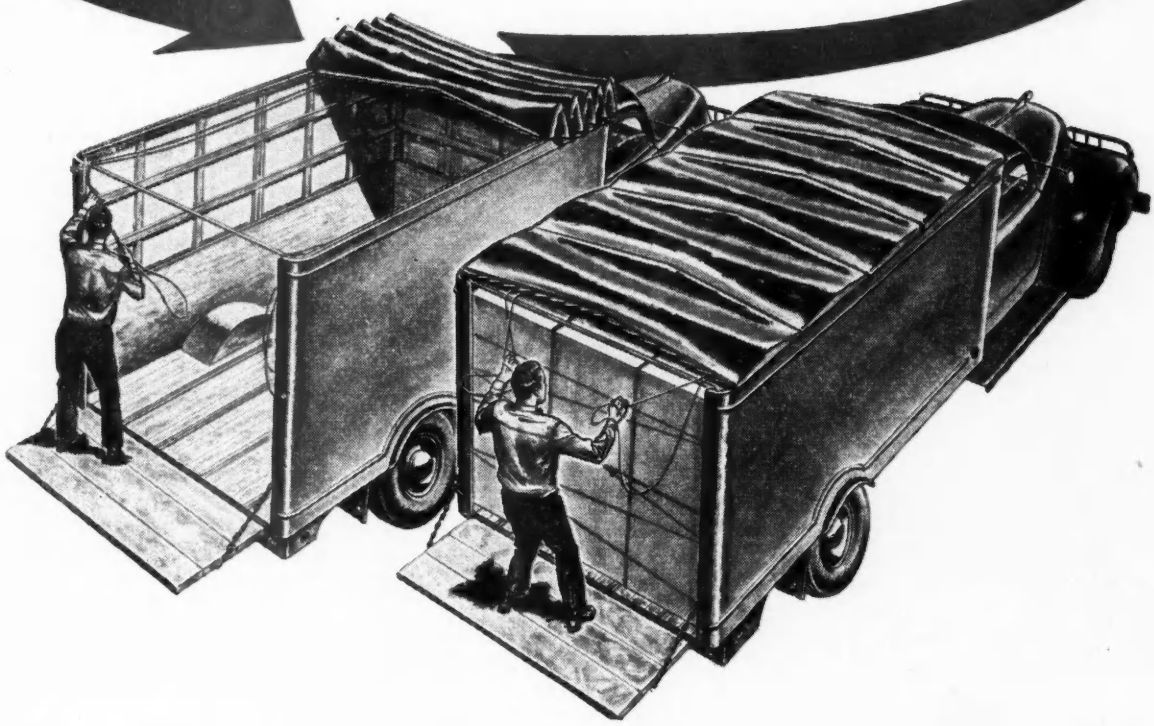
Cleans cylinder heads of carbon without scraping . . . cleans water side of cylinder heads of insulating algae, grease, sludge and scale—thus restoring original thermal efficiency built into engine by manufacturer.

IMMEDIATE DELIVERY
1 GALLON OR A TANK CAR

CURRAN CORP.
Mfg. Chemists
LAWRENCE, MASS.

1v93-50

Increase Tarpaulin Life Speed your Operations With Pittsburgh TRUCK-TOPPER



Save wear and tear on your tarpaulins—save time at loading docks—and reduce damage claims with the new Pittsburgh TRUCK-TOPPER. With it, your truck can be covered or uncovered in a few minutes as the tarpaulin is securely tied to evenly spaced steel bows that slide forward or back with little effort. This eliminates many of the side ties. TRUCK-TOPPER is operated by one man and is easily and economically installed on trucks 16 ft. and under.

For more information on how you can save time and money with Pittsburgh TRUCK-TOPPER, see your new truck dealer or write to Pittsburgh Steel Products Company, Dept. CCJ, Grant Building, Pittsburgh 30, Pa.

TRUCK-TOPPER *List Price Approximately $90.00*

For trailers and large trucks over 16 ft., the power controlled Pittsburgh SPEEDRACK is recommended. It is now in use on hundreds of pieces of equipment.

Pittsburgh TRUCK-TOPPER

Pittsburgh Steel Products Company

A Subsidiary of Pittsburgh Steel Company

3830-1

TAKE-OFFS, Power—cont.

Cotta Transmission Co., 2340 11th St., Rockford, Ill.
Davey Compressor Co., Kent, Ohio. (For trucks.)
Daybrook Hydraulic Corp., Bowling Green, Ohio.
Detroit Harvester Co., Detroit Div., 5450 W. Jefferson Ave., Detroit, Mich.
F. A. B. Mfg. Co., 1249 67th St., Oakland 2, Calif. "Fabco."
Four Wheel Drive Auto Co., E. 12th St., Clintonville, Wis. "FWD."
Four Wheel Drive Auto Co., Eagle Div., 414 E. Winnebago St., Appleton, Wis. "Graybar." (Sole distributors, Graybar Electric Co., Lexington Ave. & 43rd St., New York 17, N. Y.)
Gar Wood Industries, Inc., Wayne Div., Wayne, Mich. "GW." (With hoist, winch and crane.)
Heil Co., 3000 W. Montana St., Milwaukee 1, Wis.
Hendrickson Motor Truck Co., 8001 W. 47th St., Lyons, Ill.
Highway Trailer Co., 421 E. Fulton St., Edgerton, Wis.
J. H. Holan Corp., 4100 W. 150th St., Cleveland 11, Ohio.
Rockford Clutch Div., Borg-Warner Corp., 1319 18th Ave., Rockford, Ill.
St. Paul Div., Gar Wood Industries, Inc., 2207 University Ave., S. E., Minneapolis 14, Minn.
Spicer Mfg. Div. of Dana Corp., 4100 Bennett Rd., Toledo 1, Ohio. "Spicer Brown-Lipe."
Stimmel Winch Co., 37-24 33rd St., Long Island City 1, N. Y.

chrome truck fender mirror

THE COMPLETE LINE • SAFTEE PRODUCTS •

KD 110 fits any fender crown . . . easy to install . . . telescopic fender bracket extends to 14½" . . . swivel action . . . mounts in position desired by driver. Finished black enamel with cadmium inner sleeve and trim or full chrome.

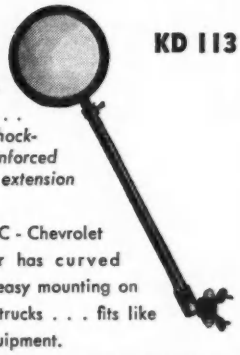
Mirror Head, 5½", has *diminishing glass for better, wider vision* . . . silvered surface . . . sealed against deterioration from weather . . . well gasketed . . . shock-proof . . . housing ribbed for strength. For Mirror Head only, order KD B107 Black or KD C107 Chrome.

KD C110 CHROME FINISH
KD B110 BLACK FINISH

KD 114

Both KD 113 and KD 114 have 6" Mirror Head with rubber bumper guard . . . silvered surface . . . sealed against weather . . . shock-proof. Both have extra heavy reinforced steel arm and extension joint . . . extension 15" to 27". Black enamel finish.

KD 113



KD 114 Dodge Truck Mirror is correctly designed for easy hinge mounting on late model Dodge trucks. Typically K-D in sturdiness.

KD 113 GMC - Chevrolet Truck Mirror has curved bracket for easy mounting on late model trucks . . . fits like original equipment.

for DODGE **for GMC-CHEVROLET**

3830-50

K-D LAMP COMPANY

NOMA ELECTRIC CORPORATION

1910 ELM STREET • CINCINNATI 10, OHIO

If you cannot find the product classification you seek, see "Specialized Products," on Page 254.

Thieman Harvester Co., Albert City, Iowa.
Warford Corp., 44 Whitehall St., New York, N. Y.
Watson Co., H. S., 1145 Harrison St., San Francisco 3, Calif. "Watson-Brown-Lipe."

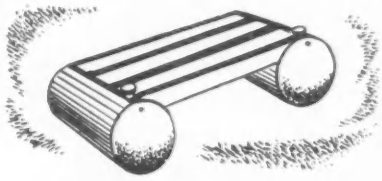
TALC, Tire

Cohutta Talc Co., Dalton, Ga.
Doggett, Inc., Stanley, 75 Varick St., New York 13, N. Y.
Durkee-Atwood Co., 215 Seventh St., N. E., Minneapolis 13, Minn.
Goodrich Co., B. F., 500 S. Main St., Akron, Ohio.
Gross Mfg. Co., 1711 California St., Monrovia, Calif.
Inland Rubber Corp., 146 W. 27th St., Chicago 16, Ill.
National Adhesives Div. of National Starch Products, Inc., 270 Madison Ave., New York 16, N. Y.
Rawhide Products Co., Michigan Ave., Kenilworth, N. J. "Miracle."

TANK BODIES, See Tanks, Trailer and Truck Body

TANKS (Fuel Supply)

American Safety Tank Co., 2814 Mercier St., Kansas City 8, Mo.
Anderson Co., O. L., 1347 E. Fort St., Detroit 7, Mich.
Champion Sheet Metal Co., 2 Squires St., Cortland, N. Y.
Chicago Mfg. Co., 411 N. Trumbull Ave., Chicago, Ill.
The Lintern Corp., 58 Lincoln Ave., Berea, Ohio. "Cylsad," "Cylsan."
Michiana Products Corp., Sheet Steel Div., Michigan City, Ind.
Michigan Fleet Equipment Co., 754 Front Ave., N. W., Grand Rapids, Mich.
Prior Products, Inc., 4828 Racell St., Dallas, Tex.
Saginaw Sheet Metal Parts Corp., 2064 E. Genesee Ave., Saginaw, Mich. (Truck.)



Snyder Tank Corp., P. O. Box 14, Buffalo 5, N. Y. (Truck.)
Standard Steel Works, 16th & Howell Sts., North Kansas City 16, Mo.
Whitehead & Kales Co., 58 Haltiner St., River Rouge, Mich. "W. & K." (Auxiliary truck.)

TANKS, Inner Tube Testing

Balcrank, Inc., Disney St. nr. Marburg, Cincinnati, Ohio.
Balloon Tire Mould Co., 527 Ceres Ave., Los Angeles 13, Cal. "Brown."
Bishman Mfg. Co., Osseo, Minn.
Dover Stamping Co., 80 Federal St., Boston, Mass.
Kennedy Service Tools Co., P. O. Box 38, Mogadore, Ohio.
Ken Tool Mfg. Co., 768 E. North St., Akron, Ohio.
Lawson Co., F. H., Evans & Whateley Sts., Cincinnati, Ohio.
Miller Rubber Products Co., 1254 S. High St., Akron, Ohio.
New Britain Machine Co., 140 Chestnut St., New Britain, Conn.
United States Steel Products Co., Boyle Mfg. Div., 5100 Santa Fe Ave., Los Angeles 11, Cal. "Boyco."

TANKS, METAL PARTS WASHING, See Washers (Metal Parts)

TANKS, Oil (Portable)

(Tanks and pumps on wheels)

Bowser & Co., S. F., 1302 E. Creighton Ave., Ft. Wayne, Ind.
Erie Meter Systems, Inc., Pearl St. & Wagner Ave., Erie, Pa.
Gilbert & Barker Mfg. Co., Springfield, Mass. "Gilbarco Narro-Lube."
Phillips Pump & Tank Div., Steel Materials

WITH THIS GREAT NEW SYNCHRONIZED VALVE SERVICING METHOD

WATERBURY-HALL MODEL 80 VALVE REFACER

A quiet valve tappet mechanism — without tappet adjustment — can now be achieved by an exclusive Waterbury-HALL refacing method. No need for tedious experimentation. No need for repeated visits from the customer. Simple synchronization of the valve refacer and its stem grinding attachment, with a Waterbury-HALL depth gage, permits grinding with proper clearance *first time* — no adjustment needed. Fill in the coupon below for complete information.

Send for Free Descriptive Literature

Write the factory, Waterbury 91, Conn., or see your jobber, for your copy of *Synchronized Valve Servicing* and other literature pertaining to the Waterbury-HALL line of Engine Rebuilding Equipment.

MAIL TODAY

Address to Your Jobber or Direct to:
Waterbury-HALL Waterbury 91, Conn.

Gentlemen:

I am interested in the Model 80 Valve Refacer and attachments, which permit valve refacing with elimination of tappet adjustment. This will put me under no obligation.

NAME _____

ADDRESS _____

CITY _____ STATE _____

WATERBURY
Engine Rebuilding Equipment

WATERBURY TOOL

Division of Vickers Incorporated

711 EAST AURORA STREET, WATERBURY 91, CONNECTICUT

OTHER WATERBURY PROFIT-BUILDERS: Valve Seat Grinders • Crankshaft Grinders • Cylinder and Hydraulic Brake Hones • Ring Ridge Reamers • Piston Pin Hole Hones

THE LINE OF LEAST RESISTANCE—WATERBURY-HALL

3831.20
3860-1

TANKS, Oil (Portable)—cont.

Corp., 5000 Brotherton Rd., Cincinnati 9, Ohio.

Wood Mfg. Co., John, Muskegon, Mich. "Bennett." (Selling company, Service Station Equipment Co., Muskegon, Mich.)

TANKS, Trailer and Truck Body

Alloy Products Corp., 1045 Perkins Ave., Waukesha, Wis. "Lifetyme." (Truck.)

Andrews Industries, Inc., 1013 Ann Ave., St. Louis 4, Mo.

Atlas Body & Equipment Co., 4150 E. Thompson St., Philadelphia 37, Pa.

Beall Pipe & Tank Corp., 1945 N. Columbia Blvd., Portland 3, Ore.

Boardman Co., 1401 W. 11th St., Oklahoma City, Okla.

Boston Steel & Mfg. Co., 112 Bryant St., Malden 48, Mass.

Butler Mfg. Co., 13th St. & Eastern Ave., Kansas City 3, Mo.

Chicago Stainless Equipment Corp., 5001 Elston Ave., Chicago 30, Ill. (Stainless steel, for milk.)

Columbian Steel Tank Co., 1409 W. 12th St., Kansas City 7, Mo.

Cutler Metal Products Co., 1029 Line St., Camden, N. J.

Davisbilt Products Co., 1110 Richmond St., Cincinnati 3, Ohio.

Dixie Steel Mfg. Co., P. O. Box 3155, Memphis 9, Tenn.

Dorsey Trailers, Elba, Ala.

Eaton Metal Products Corp., 13th St. & Willis Ave., Omaha 2, Nebr.

Edwards Iron Works, Inc., 2901 S. Main St., South Bend 23, Ind. (Trailer.)

Farrell Mfg. Co., 804 E. Cass St., Joilet, Ill.

Felker Bros. Mfg. Co., 22 N. Chestnut St., Marshfield, Wis.

Fruehauf Trailer Co., 10940 Harper Ave., Detroit 32, Mich.

Gar Wood Industries, Inc., Wayne Div., Wayne, Mich. "GW." (Truck.)

General Body & Hoist Co., Paris & Garvey Sts., Everett, Mass. "Universal."

Heil Co., 3000 W. Montana St., Milwaukee 1, Wis.

Hoffman Auto Body Service, Inc., 1480 N. Grant Ave., Columbus, Ohio. (Refrigerator milk.)

Independent Iron Works, Eighth & Pine Sts., Oakland 21, Calif.

Industrial Steel Tank & Body Works, 5749 Landregan St., Oakland 8, Calif.

Kaustine Co., Perry, N. Y.

Kennedy Tank & Mfg. Co., 1201 Beecher St., Indianapolis 7, Ind.

Mohawk Metal Products Co., Frankfort, N. Y. (Oil.)

Morris Bros. Co., 2401 Elm St., Dubuque, Iowa.

Niles Steel Tank Co., Niles, Mich. "Lifetime."

Olson Mfg. Co., Boise, Idaho.

Pennsylvania Furnace & Iron Co., 316 Pine St., Warren, Pa.

Pfaudler Co., 100 West Ave., Rochester 3, N. Y.

Progress Mfg. Co., Oil Equipment Div., Arthur, Ill.

Providence Body Co., 831 Cranston St., Cranston, R. I. (Truck.)

Quaker City Iron Works, Aramingo & Ontario Sts., Philadelphia 34, Pa. (Truck.)

Quirk Co., 3383 E. Layton Ave., Cudahy, Wis.

Rock Hill Body Co., W. Main St., Rock Hill, S. C. (Truck.)

Sharpsville Steel Fabricators, Inc., Sharpsville, Pa. (Truck.)

Springfield Body & Trailer Co., 1631 College St., Springfield, Mo.

Stainless & Steel Products Co., 1000 Berry Ave., St. Paul, Minn. "Certified." (Stainless steel.)

Standard Auto Body Co., 4900 S. Soto St., Los Angeles 11, Calif.

Standard Steel Works, 16th & Howell Sts., North Kansas City 16, Mo.

Steel Products Co., P. O. Box 1007, Savannah, Ga. "Weld Bilt."

Trailmobile Co., 31st & Robertson Aves., Cincinnati 9, Ohio.

Truck Welding & Equipment Co., 739 Ninth Ave., N., Seattle 9, Wash. (Truck.)

Veenema & Wiegers, Inc., 241 N. Tenth St., Paterson, N. J.

Wenthworth & Irwin, Inc., 123 N. E. Oregon St., Portland 14, Ore. (Truck.)

Wilco, Inc., 400 E. Decatur St., Kenton, Ohio.

TANKS and SYSTEMS, Gasoline and Oil Storage

Biggs Boiler Works Co., 1007 Bank St., Akron, Ohio.

Birmingham Tank Co., Div. of Ingalls Iron Works Co., 720 Ave. D, Birmingham, Ala. "Birtank." (Tanks.)

Bowser, Inc., 1302 E. Creighton Ave., Fort Wayne, Ind.

Butler Mfg. Co., 13th St. & Eastern Ave., Kansas City 3, Mo.

Caldwell Co., W. E., 202 E. Brandeis St., Louisville, Ky.

Chicago Boiler Co., 1965 Clybourn Ave., Chicago 14, Ill. "Red Head." (Tanks.)

Columbian Steel Tank Co., 1409 W. 12th St., Kansas City 7, Mo.

Cutler Metal Products Co., 1029 Line St., Camden, N. J.

Dixie Steel Mfg. Co., P. O. Box 3155, Memphis 9, Tenn.

Eaton Metal Products Corp., 13th St. & Wills Ave., Omaha 2, Nebr.

Erie Meter Systems, Inc., Pearl St. & Wagner Ave., Erie, Pa. (Systems.)

Farrell Mfg. Co., Joliet, Ill.

Good-All Electric Mfg. Co., 112 W. First St., Ogallala, Neb.

Heil Co., 3000 W. Montana St., Milwaukee 1, Wis.

Kaustine Co., Perry, N. Y.

Kennedy Tank & Mfg. Co., 1201 Beecher St., Indianapolis 7, Ind.

Koven Bros., Inc., L. O., 154 Ogden Ave., Jersey City, N. J.

Morris Bros. Co., 2401 Elm St., Dubuque, Iowa.

National Store Specialty Co., Bareville, Pa. "Pennsylvania."

Niles Steel Tank Co., Niles, Mich. "Lifetime."

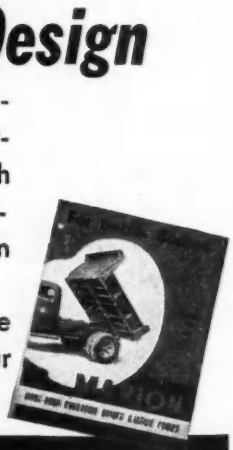
Petroleum Systems, Inc., 2914 E. Grand Blvd., Detroit 2, Mich. (Hydraulic flotation system.)

Phillips Pump & Tank Div. Steel Materials Corp., 5000 Brotherton Rd., Cincinnati 9, Ohio.

Keep ahead of schedule with "On The Job" Design

In Marion Bodies and Hoists you get dependable loading, hauling and dumping performance that keeps you "loads ahead." With "On The Job" design you get sturdy construction features developed by Marion engineers in the field under actual operating conditions.

Ask your Marion Distributor about the Marion unit designed "on the job" to meet your special requirements, or write direct.



MARION
DUMP BODIES and HYDRAULIC HOISTS

GET MORE DETAILS NOW
Just mail a post card or letter for the complete Marion catalog, or ask your Marion Distributor.

MARION METAL PRODUCTS CO., MARION, OHIO

3831-50

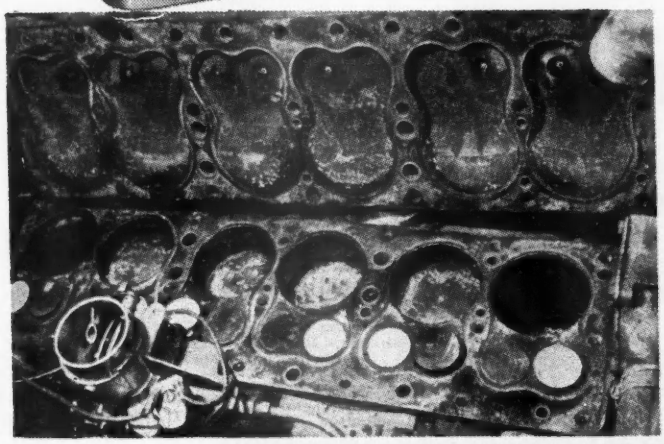
HERE'S TOP CYLINDER LUBRICATION THE WHOLE INDUSTRY'S TALKING ABOUT

HEAVY-DUTY AMPCO (with Metal Containers)

FOR ALL INTERNAL COMBUSTION ENGINES

A CONSTANT OIL SOURCE FOR THE HOTTEST, DRIEST, BUSIEST, PART OF AN ENGINE

- ✓ *Reduces Valve and Ring Failures*
- ✓ *Removes Combustion Residues*
- ✓ *Lowers Fuel Octane Requirements*
- ✓ *Saves Gasoline and Oil*
- ✓ *Controls Engine Deposits*
- ✓ *Increases Payload Power*



Left: View of engine before Ampco Installation. Mileage 91,592.

Below: Same engine 1577 miles after Ampco Installation — no mechanical work performed before or after.

Important Essential Differences With Ampco Method of Engine Lubrication

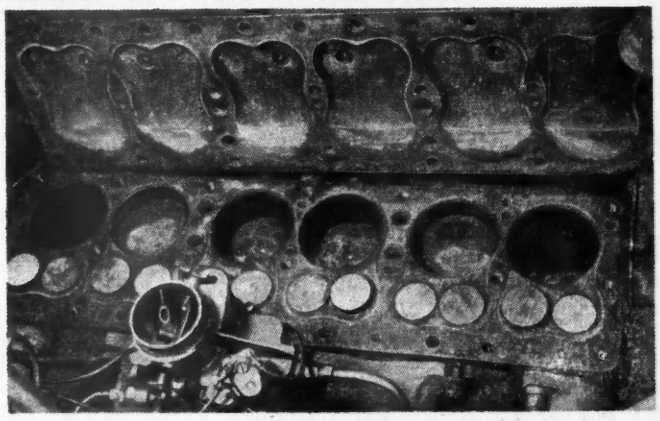
The lubricant enters the FUEL-AIR stream in the intake manifold as a completely dispersed oil spray, throughout the entire range of normal engine vacuum. As an oil spray, the lubricant is not diluted by the engine fuel but remains as separate oil particles to provide positive lubrication. As an oil spray, introduction of the lubricant is even to all cylinders and *immediate* to assure lubrication before combustion occurs within the engine.

Positive, Measurable Results With The Ampco Method of Engine Lubrication

Gradual removal of accumulated engine deposits; increase in engine compression pressures for greater power; decrease in engine fuel octane requirements; a cleaner, cooler engine from top to bottom with sludge and deposits at a minimum; reduction in consumption of engine fuel and engine oil; substantial reduction in engine repairs.

There's lubrication with Ampco where an engine needs lubrication within the Heat-Wear Zone of valves, rings, pistons, guides and cylinder walls. There's Ampco lubrication designed to meet the requirements of every type of internal combustion engine, and for every vehicle and piece of motive equipment *within your fleet*. See your oil company representative, or your automotive wholesaler for *Ampco Lubricators* and *approved*, properly compounded upper cylinder lubricants.

Heavy Duty Units available with high and low vacuum circuit. Volume of oil spray increases when engine vacuum is below 10 in. In Standard Unit oil spray regulated by Oil Flow Control, operates throughout entire range of engine vacuum, with input established by fixed oil control valve.



STANDARD UNIT
1 Qt. Visible container, for passenger cars, light to medium trucks.

1 PINT SIZE
(for Tow motors and small industrial applications)

1 QUART SIZE
(for Tractors, Taxis, Medium Trucks, etc.)

2 QUART SIZE
(for Fleet use, Buses, Trailers, etc.)

Patents Pending

VAPOR Ampco LUBRICATOR ®

AUTOMOTIVE & MARINE PRODUCTS CORP.
87 HARVARD AVENUE, BOSTON 34, MASS.

AMPCO -- FOR BETTER THAN NEW ENGINE PERFORMANCE

2240-1/2

TANKS and SYSTEMS, Gasoline—cont.

Progress Mfg. Co., Oil Equipment Div., Arthur, Ill.
Quaker City Iron Works, Aramingo & Ontario Sts., Philadelphia 34, Pa.
Richmond Engineering Co., Seventh & Hospital Sts., Richmond 1, Va. "Reco."
Sharpsville Steel Fabricators, Inc., Sharpsville, Pa.
Smith Mfg. Co., Grover C., 850 E. Valley Blvd., San Gabriel, Calif. "Grover."
Standard Steel Works, 16th & Howell Sts., North Kansas City 16, Mo.
Truckstell Co., The, Union Commerce Bldg., Cleveland 14, Ohio.
United States Steel Products Co., Boyle Mfg. Div., 5100 Santa Fe Ave., Los Angeles 11, Cal. "Boyco."
Western Metal Specialty Co., 1213 N. 62nd St., Milwaukee 13, Wis.
Wood Mfg. Co., John, Muskegon, Mich. "Bennett."

TAPE, Masking, See Masking, Tape

TARPAULINS
(See also Covers, Truck)

Mt. Vernon-Woodberry Mills, Inc., Mercantile trust Bldg., New York, N. Y.
Pittsburgh Steel Products Co., Pittsburgh, Pa. (Truck-Topper.)

TELEPHONES, Mobile, See Radios, Two-Way

with HYPRESSURE Jenny STEAM CLEANER

I know! I thought we had ours trimmed to the bone. Our mechanics were consistently equalling or bettering time study standards on most jobs. Yet I knew they had to dig through mud and grease to find parts, and were constantly wiping grease from their hands and tools. I figured if I could save that lost motion we could do even better.

Well sir, we got a Hypressure Jenny Steam Cleaner and began to clean every job first thing when it came into the shop. You may think I'm exaggerating, but our figures show that such lost motion was costing us 25% to 40% of our mechanic's time! I know the figures are right because our cost per job has dropped about the same amount.

I don't know how we ever got along without a Hypressure Jenny before, because it is the most profitable equipment we ever bought. Why don't you write for a copy of the new booklet, "1001 Ways To Extra Profits" and see how Hypressure Jenny can save your time and money? It's free for the asking—no obligation. Write today!

HYPRESSURE JENNY DIVISION
HOMESTEAD VALVE MANUFACTURING COMPANY
"Serving Since 1892"
P. O. BOX 90 CORAOPOLIS, PA.

TESTERS, Bearing Wear

Advertising Distributors, Inc., 5046 Shaw Ave., St. Louis 10, Mo. "A. D. I."
Federal-Mogul Service, Detroit 13, Mich.
Hastings Mfg. Co., 375 E. Mill St., Hastings, Mich.
Monmouth Products Co., 6545 Carnegie Ave., Cleveland 3, Ohio.

TESTERS, Brake
(See Gages, Brake Drum; Gages, Brake Shoe)

Bear Mfg. Co., 21st St. & Fifth Ave., Rock Island, Ill.
Bendix Products Div. of Bendix Aviation Corp., 401 Bendix Drive, South Bend, Ind. "Cowdrey."
Interstate Brake Testing Machine Co., 1218 Rio Vista Ave., Los Angeles 23, Calif. "Electro Brakometer."
Kent-Moore Organization, Inc., 5-105 General Motor Bldg., Detroit 2, Mich.
Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill. "Safety Lane."

TESTERS, Cylinder Block

Kerkling & Co., 12270 Montague St., Pacoima, Calif. "K & W."
Moguloid Co. of America, 3520 W. Carroll St., Chicago, Ill.

TESTERS, ELECTRICAL, See Instruments, Electrical Circuit Testing

TESTERS, ENGINE, See Analyzers, Trouble

TESTERS, Fuel Pump

AC Spark Plug Div., General Motors Corp., 1300 N. Dort Highway, Flint 2, Mich.
Arsco Mfg. & Sales Corp., 453 Tenth Ave., New York 18, N. Y.
Electric Heat Control Co., 9115 Inman Ave., Cleveland 5, Ohio. "King."
Hygrade Products Div., Standard Motor Products, Inc., 35-35 35th St., Long Island City, N. Y.
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.
Lanagan & Hoke, 431 E. Collom St., Philadelphia 44, Pa.
Powercraft Corp., 2502 S. Wabash Ave., Chicago, Ill. "Powerflo." (Sole distributors, Leterstone Sales Co., 2515 S. Wabash Ave., Chicago, Ill.)
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
Rex Mfg. Co., 415 Lake Ave., Racine, Wis.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.
Weidenhoff, Inc., 4340 W. Roosevelt Rd., Chicago 24, Ill.

TESTERS, Gasoline Mileage

Curtiss & Smith Mfg. Corp., 22 High St., Pottstown, Pa. "C. S."
Gauthier, Donat A, 2970 W. Grand Blvd., Detroit, Mich. "Consometer," "Gauthier," "Vacomat."
Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
Lanagan & Hoke, 431 E. Collom St., Philadelphia 44, Pa.
Snow Plastics Corp., 221 E. 26th St., Chicago 16, Ill.
Zenith Carburetor Div. of Bendix Aviation Corp., 696 Hart Ave., Detroit 14, Mich. "Precise," "Zenith."

TESTERS, Headlight (Optical)

Bean Div. Food Machinery & Chemical Corp., John, 1305 S. Cedar St., Lansing, Mich.
Bear Mfg. Co., 21st St. & Fifth Ave., Rock Island, Ill.
Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill. "Rayoscope." (Electric eye; licensees.)

TESTERS, Inner Tube, See Tanks, Inner Tube Testing

TESTERS, Radiator

Fischer & Porter Co., 700 County Line Rd., Hatboro, Pa. "Flowrator."
Inland Mfg. Co., 1108 Jackson St., Omaha 8, Neb.

TESTERS, Spark Plug

AC Spark Plug Div., General Motors Corp., 1300 N. Dort Highway, Flint 2, Mich.
Acme Electric Corp., Cuba, N. Y.
Bowes "Seal Fast" Corp., 228 N. Pine St., Indianapolis 7, Ind.
Champion Spark Plug Co., 904 Upton Ave., Toledo, Ohio.
Cropley Instruments, 10 S. River St., Aurora, Ill.
Electric Heat Control Co., 9115 Inman Ave., Cleveland 5, Ohio.
Globe-Union, Inc., 900 E. Keefe Ave., Milwaukee 1, Wis.

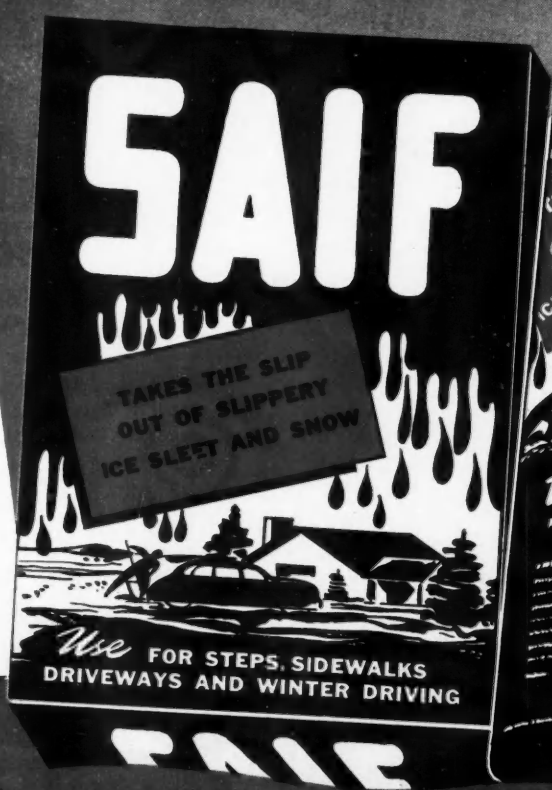
2740-50

It's here!

Packed Traction for Icy Emergencies

SAIF, the chemically treated wood-flake compound, weighs only one tenth as much as sand. Provides instant traction for trucks when icy roads or driveways make the going tough.

SAIF, sprinkled sparingly on loading platforms, steps, walks, and driveways, makes the icy or snow-packed surface SAFE instantly! Non-corrosive, non-poisonous, and non-inflammable. Continues to work until ice is completely dissolved. Cannot injure any part of truck or car.



SAIF is packaged in 25 pound bags for truck use.

Also available in handy tube applicator for automotive use when car is stalled at curbside, driveway or on road.

Packaged in convenient cartons for home use on ice coated steps and walks.

Write for complete details

BE SAFE USE SAIF

NORMANDY CHEMICAL CORPORATION
NINTH AND WESTERN MUSKEGON, MICHIGAN

1313211

TESTERS, Spark Plug—cont.

Kastar, Inc., 200 Lincoln Ave., New York 54, N. Y. "Kant-Shok."
Park Metalware Co., Thorn Ave. & B. R. & P. Tracks, Orchard Park, N. Y. "X Celite."
Stanley Tools, 111 Elm St., New Britain, Conn.
Wudel, Edmund J., 6422 S. Central Ave., Los Angeles 6, Calif. "Vixen."

TESTERS, Valve and Clutch Spring

Advertising Distributors, Inc., 5046 Shaw Ave., St. Louis 10, Mo. "A.D.I."
Cedar Rapids Engineering Co., 902 N. 17th St., Cedar Rapids, Iowa. "Kwik-Way."
Plomb Tool Co., 2209 Santa Fe Ave., Los Angeles 54, Calif. "Proto." (For valve and clutch springs.)
Rinck-McIlwaine, Inc., 16 Hudson St., New York 13, N. Y. "Rimac."
Sturtevant Co., P. A., Addison, Ill.

THERMOMETERS, Recording and Indicating

Bailey Meter Co., 1050 Ivanhoe Rd., Cleveland 10, Ohio.
Bristol Co., Waterbury 91, Conn.
Dillon Co., W. C., 5410 W. Harrison St., Chicago, Ill.
Electric Auto-Lite Co., Instrument & Gage Div., La Crosse, Wis.
Engelhard, Inc., Charles, 900 Passaic Ave., East Newark, N. J.
Foxboro Co., Neponset Ave., Foxboro, Mass.
Freas Glass Works, Francis L., 140 E. Ninth Ave., Conshohocken, Pa. (Battery.)
Illinois Testing Laboratories, 420 N. LaSalle St., Chicago, Ill.
Kocour Co., 4800 S. St. Louis Ave., Chicago 32, Ill. (Indicating.)
Lewis Engineering Co., 339 Church St., Naugatuck, Conn.
Minneapolis-Honeywell Regulator Co., Brown Instruments Div., Wayne & Roberts Ave., Philadelphia 44, Pa.
Powers Regulator Co., 2738 Greenview Ave., Chicago, Ill.
Precision Thermometer & Instrument Co., 1465 Brandywine St., Philadelphia 30, Pa. "Princo." (Indicating.)
Rochester Mfg. Co., 100 Rockwood St., Rochester 10, N. Y.
Standard Dry Kiln Co., P. O. Box 5708, Indianapolis 21, Ind.
Tagliabue Corp., C. J., 614 Frelinghuysen Ave., Newark 5, N. J. "Tag."
Taylor Instrument Companies, 95 Ames St., Rochester, N. Y.
Thwing-Albert Instrument Co., Penn St. & Pulaski Ave., Philadelphia 44, Pa.
United States Gauge Div. of American Machine & Metals, Inc., Sellersville, Pa.
Weston Electrical Instrument Corp., 614 Frelinghuysen Ave., Newark 5, N. J. "Max-Min."

If you cannot find the product classification you seek, see "Specialized Products," on Page 254.

THERMOSTATS

Bishop & Babcock Mfg. Co., 4901 Hamilton Ave., N. E., Cleveland 14, Ohio.
Bridgeport Thermostat Div., Robertshaw-Fulton Co., 1225 Connecticut Ave., Bridgeport 1, Conn.
Burd Piston Ring Co., HaDees Heater Div., Tenth St. & 23rd Ave., Rockford, Ill. "HaDees."
Dole Valve Co., 1901 Carroll Ave., Chicago 12, Ill.
Evco Products Co., 160 W. 62nd St., New York 23, N. Y.
Fulton Sylphon Div., Robertshaw-Fulton Controls Co., Knoxville 4, Tenn. "Sylphon," "Sylphon Autostat."
Harrison Radiator Div., General Motors Corp., Washburn & Walnut Sts., Lockport, N. Y.
Hawk Tool & Engrg. Co., 7663 Epworth Blvd., Detroit 4, Mich. "Divert-A-Flo." (Sole distributors, Nason Co., 7663 Epworth Blvd., Detroit 4, Mich.)
Standard-Thomson Corp., 216 S. Main St., Dayton 2, Ohio.
United Electro Control Co., 85 School St., Watertown 72, Mass.

THIRD AXLE UNITS, See Axle Units, Third, for Trucks

TIRE BUFFERS, See Buffers, Tire (Electric)

TIRE CARRIERS, See Carriers, Tire

TIRE CHAINS and EQUIPMENT, See Chains, Tire

TIRES, Pneumatic

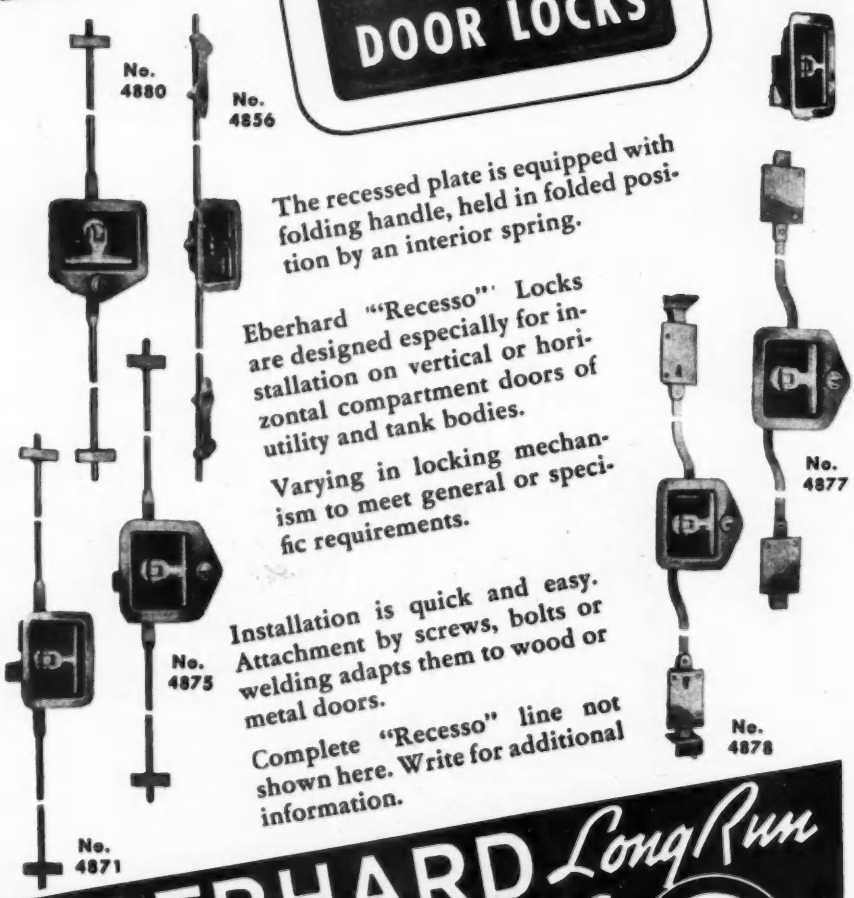
Armstrong Rubber Co., 475 Elm St., West Haven 16, Conn.
Cooper Tire & Rubber Co., Lima & Western Aves., Findlay, Ohio.
Corduroy Rubber Co., Fuller Ave. & G. T. Tracks, Grand Rapids 1, Mich.
Dayton Rubber Co., 2342 W. Riverview Ave., Dayton 1, Ohio.

Denman Rubber Mfg. Co., Warren, Ohio.
Dunlop Tire & Rubber Corp., Sheridan Drive, Buffalo 7, N. Y.
Firestone Tire & Rubber Co., S. Main St., Akron, Ohio.
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo.
General Tire & Rubber Co., Englewood & Holmes Ave., Akron, Ohio.
Gillette Tire Division, United States Rubber Co., 1230 Ave. of the Americas, New York 20, N. Y.
Goodrich Co., B. F., 500 S. Main St., Akron, Ohio.
Goodyear Tire & Rubber Co., E. Market St., Akron 16, Ohio.

UNDESIREABLE PROJECTIONS?

...NOT WITH

"RECESSO" DOOR LOCKS



The recessed plate is equipped with folding handle, held in folded position by an interior spring.

Eberhard "Recesso" Locks are designed especially for installation on vertical or horizontal compartment doors of utility and tank bodies.

Varying in locking mechanism to meet general or specific requirements.

Installation is quick and easy. Attachment by screws, bolts or welding adapts them to wood or metal doors.

Complete "Recesso" line not shown here. Write for additional information.

EBERHARD Long Run TRUCK BODY FITTINGS

EBERHARD MANUFACTURING CO.

Division of the Eastern Malleable Iron Co. EVARTS AVE. CLEVELAND, OHIO

780-50

• Added non-stop mileage
• Safer Driving
• Fewer Stops
ST. PIERRE Truck Chains
with the Lightning Quick
FINGER TIP FASTENER
Can't come loose — Slip on — slip off by hand in seconds. No more wrestling. No more fumbling. No more frozen fingers.
TIRE CHAINS
all sizes, bar and regular
Your Jobber stocks St. Pierre Chains
A PERSONAL NOTE TO YOU MR. FLEET OWNER
Use only one hand to attach your own car chains. Order a St. Pierre Chain attaching kit, consisting of a special chain attacher, knee pad and soil proof arm guard.
ST. PIERRE CHAIN CORP.
WORCESTER MASSACHUSETTS

3830-1

TIRES, Pneumatic—cont.

Inland Rubber Corp., 146 W. 27th St., Chicago 16, Ill.
Kelly-Springfield Tire Co., Cumberland, Md.
Lake Shore Tire & Rubber Co., Des Moines, Iowa.
Lee Rubber & Tire Corp., Conshohocken, Pa.
McCreary Tire & Rubber Co., Box 700, Indiana, Pa.
Mansfield Tire & Rubber Co., Newman St., Mansfield, Ohio.
Miller Rubber Co., Div. of B. F. Goodrich Co., 500 S. Main St., Akron, Ohio.
Mohawk Rubber Co., 1235 Second St., Akron 5, Ohio.
Norwalk Tire & Rubber Co., Belden Hill Ave., Norwalk, Conn.
Seiberling Rubber Co., Akron, Ohio.
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.

TIRES, Solid

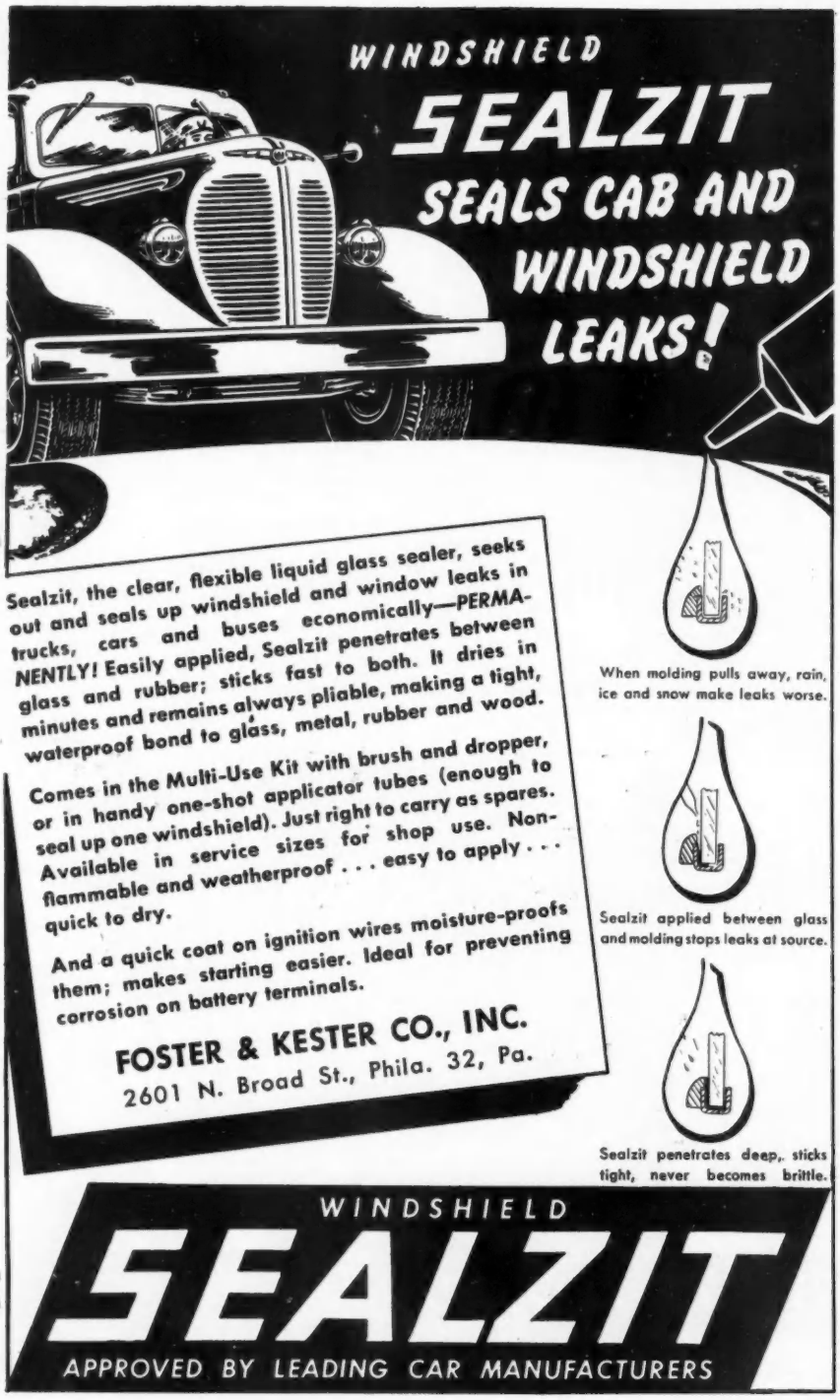
Firestone Tire & Rubber Co., S. Main St., Akron, Ohio.
Goodrich Co., B. F., 500 S. Main St., Akron, Ohio.
Goodyear Tire & Rubber Co., E. Market St., Akron 16, Ohio.
United States Rubber Co., Rockefeller Center, 1230 Sixth Ave., New York, N. Y.

TIRE GAGES, See Gages, Tire Pressure

TIRE INFLATOR, See Chucks, Air (Tire Inflating); also Meters, Air Tower

TIRE RECAPPING MOLDS, See Molds, Tire Recapping and Retreading

TIRE REGROOVERS, See Regroovers, Tire



TIRE REMOVING TOOLS, See Tools, Tire Removing and Replacing

TIRE REPAIR MATERIALS, See Compounds, Tire Repair

TIRE REPAIR TOOLS, See Tools, Tire

TIRE SPREADERS, See Tools, Tire Spreading

TIRE VULCANIZERS, See Vulcanizers, Portable and Vulcanizer, Shop

TOOLS, Battery Service

Acorn Mfg. Co., 33rd & Reed St., Erie, Pa. "Amco."
Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13F, Mich.
Armour Products Co., 9253 Nicollet Ave., S., Minneapolis 20, Minn. (Cable removers.)
Atmars Tool Co., 2411 Chestnut St., Oakland 7, Calif. (Terminal post.)
Belden Mfg. Co., 4647 W. Van Buren St., Chicago 44, Ill. (Combination plier and wrench.)
Bergman Tool Mfg. Co., 1573 Niagara St., Buffalo 13, N. Y. "Blue Bird." (Pliers, etc.)
Bishman Mfg. Co., Osseo, Minn.
Champion DeArment Tool Co., 1306 S. Main St., Meadville, Pa. "Channellock." (Pliers and clippers.)
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio. "Herbrand," "Van Chrome."
Indestro Mfg. Co., 2649 N. Kildare Ave., Chicago, Ill.
Kennedy Service Tools Co., P. O. Box 38, Mogadore, Ohio.
Ken Tool Mfg. Co., 768 E. North St., Akron, Ohio.
Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
Lectrolite Corp., Hickory St., Defiance, Ohio. "Tru-Fit." (Pliers and wrenches.)
Loock & Co., R. J., 343 N. Gay St., Baltimore, Md. "Lightnin."
M & F Mfg. Co., 426 E. Main St., Springfield, Ohio. (Battery cable pullers.)
McColpin-Christie Corp., 4922 S. Figueroa St., Los Angeles 37, Calif. "C. & C."
Murray Corp., Towson 4, Md.
New Britain Machine Co., 140 Chestnut St., New Britain, Conn.
P & C Hand Forged Tool Co., Box G, Milwaukie, Ore.
Plomb Tool Co., 2209 Santa Fe Ave., Los Angeles, Calif. "Proto." (Terminal pullers.)
Rinck-McIlwaine, Inc., 16 Hudson St., New York 13, N. Y. (Terminal pullers.)
Utica Drop Forge & Tool Corp., 2500 Whitesboro St., Utica 4, N. Y. (Pliers.)
Weidenhoff, Inc., Joseph, 4340 W. Roosevelt Rd., Chicago 24, Ill. (Battery post and terminal cleaners.)
Whitaker Cable Corp., 1301 Burlington Ave., North Kansas City 16, Mo.
Wilde Drop Forge & Tool Co., 2936 Fairmount Ave., Kansas City, Mo. (Pliers.)

TOOLS, Body and Fender Repair (Hand)

Acorn Mfg. Co., 33rd & Reed Sts., Erie, Pa. "Amco."
American Hydraulics Inc., 1822 Wildwood Ave., Sheboygan, Wis.
Auto Specialties Mfg. Co., 557 Graves St., St. Joseph, Mich. "Ausco."
Bonney Forge & Tool Works, Tilghman & Meadow Sts., Allentown, Pa.
Chicago Tool & Kit Mfg. Co., 667 W. Randolph St., Chicago 6, Ill. (Hammers.)
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill. "Duro-Chrome."
Fairmount Tool & Forging Co., 10611 Quincy Ave., Cleveland 6, Ohio.
Heller Bros. Co., 865 Mt. Prospect Ave., Newark 4, N. J.
Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio. "Herbrand," "Van Chrome."
New Britain Machine Co., 140 Chestnut St., New Britain, Conn.
Nicholson File Co., 23 Acorn St., Providence 1, R. I. "Nicholson Superior." (Files.)
P & C Hand Forged Tool Co., Box G, Milwaukie, Ore.
Plomb Tool Co., 2209 Santa Fe Ave., Los Angeles, Calif. "Proto."
Porter, Inc., H. K., 74 Foley St., Somerville 43, Mass. "Porter-Ferguson." (Hand.)
Rivette Mfg. Co., 1515 Rothwell Ave., Houston, Tex. "Fndrol." (Hand.)
Roberts Toledo Rubber Co., Prospect & MC R. R., Toledo 6, Ohio. (Rubber hammers.)

3850-50

TUBING SIZE MARKED ON NUT

for quick size identification

On Compression and Flare Types

one of the many extras that build preference for

IMPERIAL TUBE FITTINGS

This marking makes it so much easier to find, identify, sort and check size of fittings. Prevents mixups—a lifesaver when you're in a hurry.

Here are two other important extras:

*FORGED**

- ★ For Greater Strength
- ★ For Extra Toughness
- ★ For Closer Grain Structure
- ★ For Greater Uniformity

*Elbow and Tee Bodies

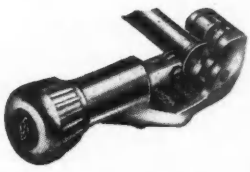
"Look For the Diamond 'I' On Every Fitting You Buy"

In addition to the outstanding advantage of FORGED Bodies, Extra Length Pipe Threads and Size Marking On Nuts, Imperial Tube Fittings feature accurately machined threads and seats, adequate wall thickness, flats for wrench hold and consistent rigid inspection throughout.

Extra Length Pipe Threads

Full length S.A.E. pipe threads on all pipe ends. They give extra assurance of tight joints and provide for additional take-ups when reconnection is necessary.

IMPERIAL TUBE WORKING TOOLS . . . *their quality speeds your work*

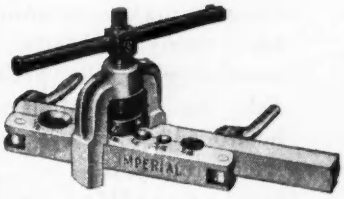


HI-DUTY TUBE CUTTER

Free-wheeling ball bearing action makes cutting easier, faster. Cuts hard or soft tubing. Roller type with flare cut-off groove. Makes clean, right angle cuts. Retractable reamer. No. 274-F . . . for 1/8" to 1" O.D. tubing.

FLARING TOOL WITH SLIP-ON YOKE

Has Imperial's exclusive quick slip-on yoke of forged steel. Makes proper 45° flares on copper, brass or aluminum tubing for tight SAE flare joints. No. 193-F flares 3/16", 1/4", 5/16" 3/8", 7/16", 1/2" O.D. Tubing.



See Your Jobber

Ask for Catalog 124-A

THE IMPERIAL BRASS MFG. CO., 1209 W. Harrison St., Chicago 7, Ill.

IMPERIAL

Brass Fittings • Shut-Off Valves
Flexible Gas and Oil Lines
Strainers • Tube Working Tools
Service Aids • Barrel Faucets

2123-1

TOOLS, Body and Fender Repair (Hand)—cont.

Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. "Blue Point."
Snyder Mfg. Co., 22nd & Ontario Sts., Philadelphia 40, Pa.
Swiss Laboratory, 1533 Hamilton Ave., Cleveland 14, Ohio.
Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K.R.W."

TOOLS, Body and Fender Repair (Portable Electric)

Kent-Moore Organization, Inc., 5-105 General Motor Bldg., Detroit 2, Mich.
Red Devil Tools, Coit St., Irvington 11, N. J.

TOOLS, Body and Fender Repair (Portable Hydraulic)

American Hydraulics Inc., 1822 Wildwood Ave., Sheboygan, Wis.
Bear Mfg. Co., 21st St. & Fifth Ave., Rock Island, Ill. "Flex-O-Power."
Bee-Line Co., P. O. Box 569, Davenport, Iowa.
Blackhawk Mfg. Co., 5325 W. Rogers St., Milwaukee 1, Wis. "Porto-Power."
G.A.C. Mfg. Co., 119 E. Fourth St., Ashland, Ohio. "Perfection Power-Plus."
Holcraft Co., 250 N. Vinedo Ave., Pasadena 8, Calif.
Porter, Inc., H. K., 74 Foley St., Somerville 43, Mass. "Porter-Ferguson."
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.

TOOLS, Body and Fender Repair (Portable Pneumatic)

American Gage Co., 143 17th Ave., Paterson, N. J.
Borm Mfg. Co., 23 N. Union St., Elgin, Ill. "Elgin." (Hammers.)
Chicago Pneumatic Tool Co., 6 E. 44th St., New York, N. Y. (Fender irons.)
Cornwell Quality Tools Co., Mogadore, Ohio.
Hauschild Mfg. Co., F. J., 540 Main St., Oneonta, N. Y. "Rams-Head."
Independent Pneumatic Tool Co., 175 State St., Aurora, Ill. "Thor." (Hammers.)
Milwaukee Electric Tool Co., 5316 W. State St., Milwaukee 8, Wis. (Hammers.)
Seiden Pneumatic Tool Co., 423 Barrett St., Jackson, Mich. (Hammers.)
Watervliet Tool Co., 1349 Broadway, Albany 1, N. Y.

TOOLS, Brake Cylinder Cleaning and Polishing

Actus Corp., 10-14 N. Bleeker St., Mount Vernon, N. Y. "Eagle."
Hyland Mfg. Co., 818 John St., Portsmouth, Ohio.
Kennedy Service Tools Co., P. O. Box 38, Mogadore, Ohio.
Wagner Electric Corp., 6400 Plymouth Ave., St. Louis 14, Mo.

TOOLS, Brake Spring Removing & Replacing

Actus Corp., 10-14 N. Bleeker St., Mount Vernon, N. Y.
Barrett Equipment Co., 21st & Cass, St. Louis 6, Mo.
Cornwell Quality Tools Co., Mogadore, Ohio.
New Britain Machine Co., 140 Chestnut St., New Britain, Conn.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. "Blue Point."
Utica Drop Forge & Tool Corp., 2500 Whitesboro St., Utica, N. Y. (Pliers.)
Williams & Co., J. H., 400 Vulcan St., Buffalo 7, N. Y.

TOOLS, Clutch Alignment

(See also Machines, Clutch Rebuilding)

Accurate Parts Mfg. Co., 12435 Euclid Ave., Cleveland 6, Ohio.
Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
Miller Co., L. B., 394 State St., Stamford, Conn.
Miller Mfg. Co., 5919 Tireman Ave., Detroit 4, Mich.
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. "Blue Point."
Zoerman-Clark Mfg. Co., Jackson, Mich.

TOOLS, Contact Point Reconditioning

Automotive Specialty Corp., 1562 DeKalb Ave., Brooklyn 27, N. Y. "Tasco."
Badger Tool & Mfg. Co., 1501 W. Polk St., Chicago, Ill.
Guaranteed Parts Co., Seneca Falls, N. Y.
Heller Bros. Co., 865 Mt. Prospect Ave., Newark, N. J.
K-D Mfg. Co., 526 N. Plum St., Lancaster, Pa.
Kastar, Inc., 200 Lincoln Ave., New York 54, N. Y. "Rub-Stone."
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.
Lanagan & Hoke, 431 E. Collom St., Philadelphia 44, Pa.
Loock & Co., R. J., 343 N. Gay St., Baltimore, Md. "Lightnin."
Machined Parts Corp., 6209 Hamilton Ave., Detroit 2, Mich. "Mapco."
Miller Co., L. B., 394 State St., Stamford, Conn.
National Ignition Mfg. Co., 521 W. 23rd St., New York, N. Y. "Nimco."
Niehoff & Co., C. E., 4925 W. Lawrence Ave., Chicago 30, Ill.
New Britain Machine Co., 140 Chestnut St., New Britain, Conn.
Preferred Electric & Wire Co., Bush Terminal Bldg. No. 8, Brooklyn 32, N. Y.
Rinck-McIlvaine, Inc., 16 Hudson St., New York 13, N. Y. (Rimac.)
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. "Blue Point."
Tacony File & Hardware Co., 2814 N. Fourth St., Philadelphia 33, Pa. "Contacto," "Ideal," "Tungsto," "Taconite," "Vim."
Victor Instrument Mfg. Co., 33 W. 60th St., New York 23, N. Y.

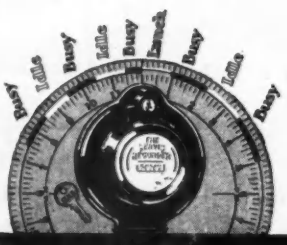
LOST TIME . . . DELAYS . . . GETTING IN LATE! The blame used to be always put on the driver ("Frank must've been loafing somewhere, etc.")

Some Other Causes

BUT—now we know that much of the time a truck loses can be due to the OFFICE! Take the Shipping Dept.—if it doesn't make the morning load ready *early,* the truck doesn't get away *promptly.* Take the Traffic Manager—if he doesn't route it efficiently, delays at traffic bottlenecks may result. But improve the office system and several expensive trucks increase their running time an hour a day or more!

Here's the Answer

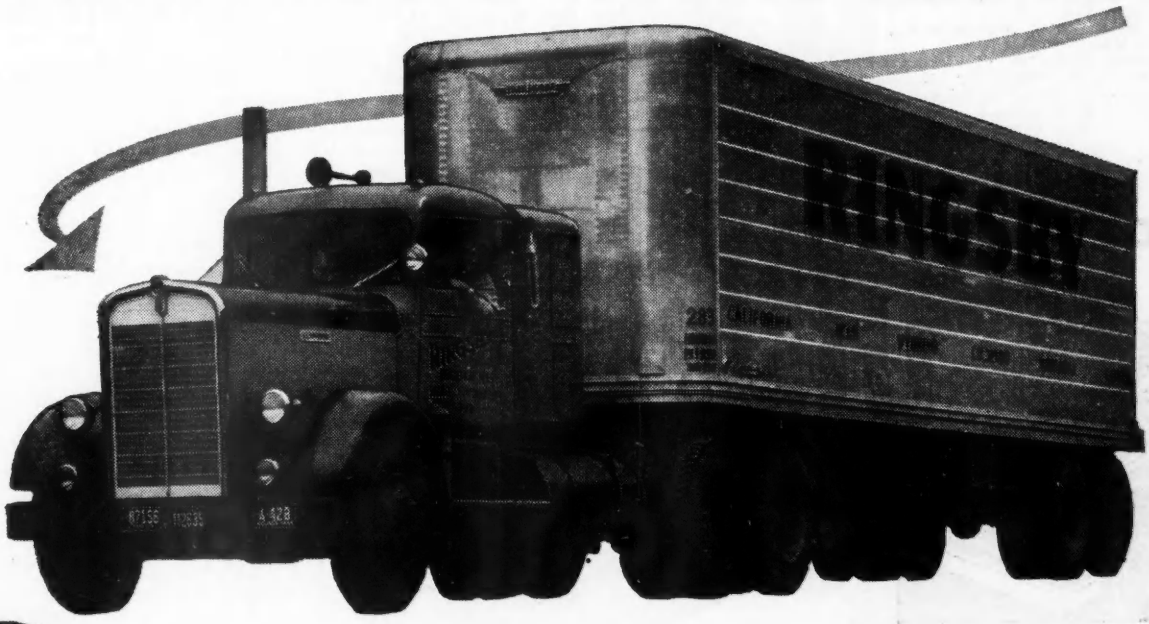
Only when you find out *when* the delays occur and for *how long,* can you go after the *cause.* Install *Servis Recorders*—their charts show up *all* delays—idle time can't be hidden. Write for the full story. The Service Recorder Company, 1375 Euclid Avenue, Cleveland 15, O.

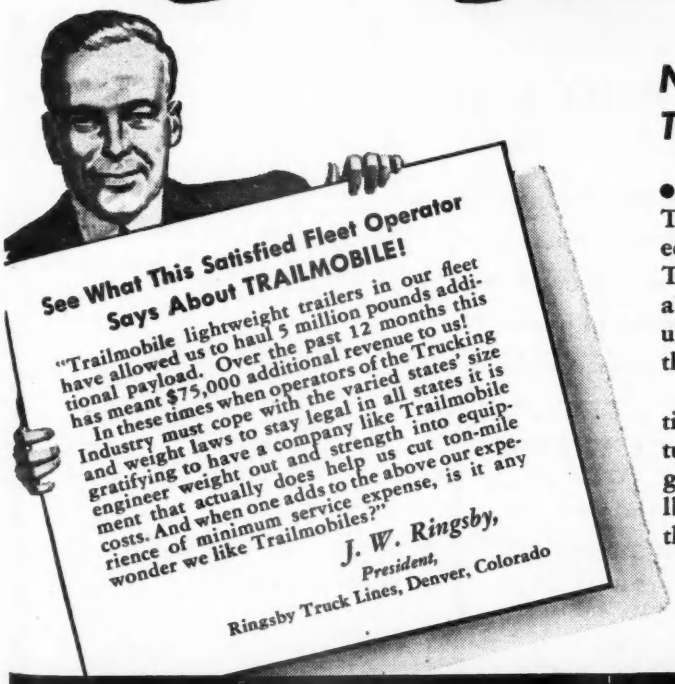


The Servis Recorder
The Good Driver's Best Friend

3830-50

Hauled 5 Million Pounds Extra Payload...Earned $75,000 Additional Revenue...with TRAILMOBILE!





No Undue Maintenance Lay-Ups! Tire Wear at Amazing Minimum!

● Yes, the Ringsby Truck Lines have found The Trailmobile All-Aluminum Trailer so efficient, so economical to operate . . . they're ordering *more* Trailmobiles immediately! The remarkable, profitable experiences this and so many other haulers are undergoing with Trailmobile . . . can very well be the story of *your* trucking activity.

In All-Aluminum Trailmobile you'll find a combination of far lighter weight, amazing strength, plus virtually maintenance-free operation. In addition, you get the advantages of the "Bonus Load" . . . up to 3000 lbs. more payload, more profits per trip! Investigate the unusual possibilities now. Write for the complete Trailmobile Story!

WRITE TODAY FOR COMPLETE FACTS!

THE TRAILMOBILE COMPANY

Cincinnati 9, Ohio • Berkeley 2, California

MAIL THIS COUPON NOW!

THE TRAILMOBILE CO.
31st and Robertson, Cincinnati 9, Ohio

I am very much interested in the new Trailmobile All-Aluminum Trailers. Please send me complete descriptive information.

Name _____

Business Address _____

City _____ *State* _____

My Position _____

38 14-81

TOOLS, Cylinder Reboring (Portable)
(See also Hones, Cylinder. Also Deglazers, Cylinder)

Cedar Rapids Engineering Co., 902 N. 17th St., Cedar Rapids 1, Iowa. "Kwik-Way."
Lempco Products, Inc., 5490 Dunham Rd., Bedford, Ohio.
Rottler Boring Car Co., 1727 First Ave., S., Seattle 4, Wash.
St. Louis Tool Co., 6100 Prescott St., St. Louis 15, Mo. "St. Louis Superior," "S-L."
Storm-Vulcan, Inc., 2504 Commerce St., Dallas 1, Tex.
Van Norman Co., 2640 Main St., Springfield 7, Mass.
Waterbury Tool, Div. of Vickers, Inc., 188 E. Aurora St., Waterbury 91, Conn. "Waterbury-Simplicity." (Combination boring and grinding machines.)
Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K.R.W."

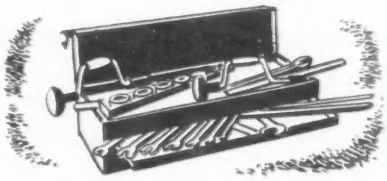
If you cannot find the product classification you seek, see "Specialized Products," on Page 254.

TOOLS, Flexible Shaft

Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa. "Sioux."
Balmar Corp., N. A., Strand & Co. Div., 3500 Clipper Mill Rd., Woodberry, Baltimore 11, Md. "Strandflex."
Binghamton Flexible Shaft Div., Swartz & White Mfg. Co., 486 Chenango St., Binghamton, N. J.
Bradford Machine Tool Co., 657 Evans St., Cincinnati 4, Ohio. "Flexmaster."
Carborundum Co., Buffalo Ave., Niagara Falls, N. Y.
Dumore Co., 14th & Racine Sts., Racine, Wis.
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
Haskins Co., R. G., 2651 W. Harrison St., Chicago 27, Ill. (Sanding, grinding, polishing, screwdriving and nut setting.)
Jarvis Co., Chas. L. Middletown, Conn.
Martindale Electric Co., 1340 Hird Ave., Cleveland 7, Ohio. "Martindale Motorflex."
Pratt & Whitney, Div. Niles-Bement-Pond Co., Charter Oak Blvd., West Hartford 1, Conn. "Kellerflex."
Precise Products Co., 1328 Clark St., Racine, Wis. "Coolflex."
Stanley Electric Tools, Div. of Stanley Works, 480 Myrtle St., New Britain, Conn.
Stow Mfg. Co., 38 Shear St., Binghamton, N. Y.
United States Electrical Tool Co., 1050 Findlay St., Cincinnati 14, Ohio.
Walker-Turner Div., Kearney & Trecker Corp., 639 South Ave., Plainfield, N. J.
Wyzenbeek & Staff, Inc., 836 W. Hubbard St., Chicago 22, Ill. "Wyco."

TOOLS, Hand

Agner Simplex Co., 106 Pine St., Burlington, Wis. "Simplex."
Apco Mossberg Co., Lamb St., Attleboro, Mass. "Mossberg."
Apex Machine & Tool Co., 1025 Patterson Blvd., Dayton, Ohio.
Armstrong Bros. Tools Co., 5200 Armstrong Blvd., Chicago 30, Ill.
Armstrong Mfg. Co., 303 Knowlton St., Bridgeport 8, Conn.
BMC Mfg. Co., 5 Griswold St., Binghamton, N. Y.
Bath & Co., John, 18 Grafton St., Worcester, Mass.
Bay State Tap & Die Co., Chauncy St., Mansfield, Mass.
Beall Tool Div., Herbrand & Co., East Alton, Ill. (Ratchet.)
Bemis & Coll Co., 125 Main St., Springfield, Mass. "B&C."
Bergman Tool Mfg. Co., 1573 Niagara St., Buffalo 13, N. Y. "Bluebird."
Besley & Co., Chas. H., 118 N. Clinton St., Chicago 6, Ill.
Billings & Spencer Co., 1 Laurel St., Hartford 1, Conn. "Vitalloy."
Blackhawk Mfg. Co., 5325 W. Rogus St., Milwaukee 1, Wis. "Blackhawk," "Nugget."
Boker & Co., 101 Duane St., New York, N. Y.
Bonney Forge & Tool Works, Tilghman & Meadow Sts., Allentown, Pa.
Bremil Mfg. Co., 1700 Pittsburgh Ave., Erie, Pa. "All-Alloy."
Bridgeport Hardware Mfg. Corp., 461 Iranistan Ave., Bridgeport, Conn. "Blue-Forge," "Hy-Bar."
Brubaker & Bros., Co., W. L., Millersburg, Pa.
Buckeye Reliner Producing Co., 637 N. Jackson St., Lima, Ohio. (Rubber mallets.)



Callahan Mfg. Co., 90 Halton St., Danver, Mass.
Card Mfg. Co., S. W. Div., Union Drill Co., Rumford Ave., Mansfield, Mass.
Chicago Tool & Kit Mfg. Co., 667 W. Randolph St., Chicago 6, Ill. "C-T-K."
Cincinnati Tool Co., 1967 Waverly Ave., Cincinnati 12, Ohio. "Hargrave."
Cleveland Steel Tool Co., 660 W. 82nd St., Cleveland, Ohio.
Cornwell Quality Tool Co., Mogadore, Ohio.
Conant & Donelson Co., Conway, Mass.
Continental Rubber Works, 1902 Liberty St., Erie, Pa. "Vitalic."
Curtiss & Smith Mfg. Corp., 22 High St., Pottstown, Pa. "CS." (Wheel bearing adjusting nut.)
Danielson Mfg. Co., Danielson, Conn. "Danco."
Delaware Tool Steel Corp., 3300 Market St., Wilmington 99, Del. "Delsteel."
Division Lead Co., 836 W. Kinzie St., Chicago, Ill. "Diveo." (Lead and babbitt.)
Dixon, Inc., William, 32 E. Kinney St., Newark, N. J.
Duro Metal Products Co., 2649 N. Kildare St., Chicago 39, Ill. (Duro Chrome.)
Fairmount Tool & Forging Co., 10611 Quincy St., Cleveland 6, Ohio.

NASH BODY-GARD BUMPERS

CUSTOM BUILT FROM HI-TENSILE STEEL
Channel Type Construction

FOR NEW EQUIPMENT OR REPLACEMENT ON TRUCKS, BUSES, COACHES AND ALL TYPES OF COMMERCIAL TRUCK BODIES

Stamped from rugged HI-TENSILE steel, Nash Body-Gard Bumpers are designed to fit and protect the front and rear of all types of trucks, truck bodies, buses and coaches. Due to flexible tooling and equipment, they can be made to your exact specifications and at economical prices. The style and size Body-Gard Bumper you order can be shipped promptly.

Body-Gard Bumpers meet a need long felt by the entire industry. They are styled to improve any vehicle's appearance and are built to provide maximum protection with minimum weight.

Send for folder which describes how the Body-Gard line will help you solve your bumper problems.

5 FACE WIDTHS
3½", 4½", 5½", 6" and 6⅝" wide

3 STYLES
REGULAR
With 3⅜" end form
FULL
With end form up to 7½"
WRAP AROUND
End form as deep as required

PROMPT DELIVERY • LOW COST

NASH BROS. COMPANY
Manufacturers of Nash Tire Carriers
PAYNE STREET AND DEWEY AVENUE, EVANSTON, ILLINOIS

3830-50

FULL-CORNER HOUSINGS

EXCLUSIVE WITH

TIMKEN *Detroit*

HEAVY-DUTY AXLES

It's *easy* to judge a truck axle! Just take a look at the features—*the Timken-Detroit Exclusive Features*—which distinguish modern Timken-Detroit Axles from ordinary axles.

Take, for example, Full-Corner Housings—just one of the many Timken-Detroit Exclusive Features. Full-corner rectangular design at the spring seats and dense, compacted steel in the corners give these rugged, forged-steel axle housings maximum strength with a minimum of weight. Because they are *hot-forged* (not cold-pressed) there is no stretched metal in the corners.

Better get the full facts about today's *most modern* axles! Learn how Timken-Detroit's Exclusive Features make trucks perform better, last longer, require less maintenance. Write today for full information!

Specify Timken-Detroit Axles for these Famous Features:

Hypoid Gearing • "3 for 1" Final Drive Interchangeability • Two-Speed Spring-Flex Power Shift • Full-Corner Forged-Steel Housings with Welded-On Covers • Cycle-Welded Brake Liners • Torsion-Flow Axle Shafts • Weld-Built Tubular Trailer Axles • "Cradle-Ride" Tandem Drive Units

TIMKEN *Detroit* AXLES

A PRODUCT OF THE TIMKEN-DETROIT AXLE COMPANY
DETROIT 32, MICHIGAN

The Accepted T D A Co. Standard

PLANTS AT: DETROIT, MICH. • OSHKOSH, WIS. • JACKSON, MICH. • UTICA, N. Y. • ASHTABULA, OHIO • KENTON, OHIO • NEW CASTLE, PA.

3824-1

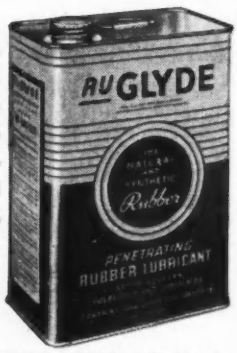
To Reduce Tire Maintenance Costs

• Use assembly line methods in mounting tires—the way it's done at the factory on all new trucks.

To make sure that inner tubes and flaps slide—not stretch—into position and to guard against pinching and bead injury . . . the tires, tubes and flaps on new trucks and cars are lubricated with a *wet* lubricant before assembly. This conforms with the recommended procedure of tire manufacturers.

*Ru*GLYDE — the ready-to-use, *wet* lubricant—helps prevent premature tube and tire failure . . . makes tire mounting faster and easier. 100% safe for both natural and synthetic rubber. No castor oil . . . no alcohol . . . no harmful soaps. Will not induce rim rust nor harm finishes.

Available through jobbers in one and five gallon cans with *Ru*GLYDE tire applicator; also 8 oz. refillable dispenser.



AN AGS PRODUCT

AMERICAN GREASE STICK CO.
Muskegon, Mich.

On and off the rim with RUGLYDE makes tire changing SAFER, FASTER, EASIER.

For dismounting stuck or rusted tires, apply *Ru*GLYDE to both sides of tire along edge of rim. Allow few minutes for penetration, then proceed with tire removal.

RuGLYDE® Approved Rubber Lubricant
Standard of the Industry since 1938

TOOLS, Hand—cont.

Forsberg Mfg. Co., 125 Seaview Ave., Bridgeport, Conn. "Whale."
G. M. Co. Mfg. Co., 43-10 21st St., Long Island City, L. I., N. Y.
Gasket, Packing & Specialty Co., 298 Broadway, New York, N. Y. (Lead, babbitt, copper, rubber, etc.)
Geometric Tool Co., Div. of Greenfield Tap & Die Corp., Blake & Valley Sts., New Haven 15, Conn. (Solid adjustable.)
Goodrich Co., B. F., 500 S. Main St., Akron, Ohio. (Rubber mallet.)
Goodyear Tire & Rubber Co., E. Market St., Akron, Ohio.
Greene, Tweed & Co., North Wales, Pa. "Bosa," "Empire." (Plastic.)
Greenfield Tap & die Corp., Sanderson St., Greenfield, Mass. "GTD."
Hanson-Whitney Machine Co., 169 Bartholomew Ave., Hartford 2, Conn. "HW."
Heller Bros. Co., 865 Mt. Prospect Ave., Newark 4, N. J.
Hendry Co., C. J., 27 Main St., San Francisco 5, Calif. "Tac."
Henry & Allen, Inc., 2 Wadsworth St., Auburn, N. Y. "Red Nut," "Silver Nut."
Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio. "Herbrand," "Van Chrome."
Indestro Mfg. Co., 2649 N. Kildare Ave., Chicago, Ill.
Jari Products, Inc., 2938 Pillsbury Ave., Minneapolis, Minn. (Impact for buses, trucks, and trailer wheels.)
Jergans Tool Specialty Co., 712 E. 163rd St., Cleveland 10, Ohio. (For White trucks only.)
K-D Mfg. Co., 526 N. Plum St., Lancaster, Pa.
Kaalot Mfg. Co., 3927 N. Kedzie Ave., Chicago 18, Ill. (Buckskin fabric.)
Kal Van Machine Products, Inc.
Kennedy Service Tools Inc., P. O. Box 38, Mogadore, Ohio. (Rubber, fibre, plastic.)
Ken Tool Mfg. Co., 768 E. North St., Akron, Ohio.
Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
Keystone Reamer & Tool Co., Millersburg, Pa.
Lambert Products, Inc., 513 Hunter Ave., Dayton, Ohio. "Budnut." (Wheel.)
Landis Machine Co., Fifth & Church Sts., Waynesboro, Pa. (Solid Adjustable.)
Larson Tool & Stamping Co., Olive St., Attleboro, Mass.
Leterstone Sales Co., 2515 S. Wabash Ave., Chicago, Ill.
Loock & Co., R. J., 343 N. Gay St., Baltimore, Md. "Lightnin." (Rubber mallets.)
Lufkin Rule Co., Hess Ave., Saginaw, Mich. (Center.)
Martindale Electric Co., 1340 Hird Ave., Cleveland 7, Ohio. (Rawhide.)
Matticks Mfg. Co., 4156 E. Pacific Way, Los Angeles 23, Calif. "Turner." (Rubber.)
Mayhew Steel Products, Inc., Shelburne Falls, Mass.
Mechanic's Tool & Forge Co., Howard St., Sabina 1, Ohio. "Mac."
Metal Engineering Co., 134 N. La Salle St., Chicago 2, Ill. "Metco."
Miller Mfg. Co., 5919 Tireman Ave., Detroit 4, Mich.
Millers Falls Co., Greenfield, Mass. (Brass.)
Morse Twist Drill & Machine Co., 163 Pleasant St., New Bedford, Mass.
Murchey Machine & Tool Co., 12800 Puritan St., Detroit, Mich. (Solid and Adjustable.)
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
New Britain Machine Co., 140 Chestnut St., New Britain, Conn.
New England Pressed Steel Co., Washington Ave., Natick, Mass. "Nepsco."
New Plastic Corp., 1017 N. Sycamore Ave., Los Angeles, Calif. "Nupla."
Niagara Machine & Tool Works, 683 Northland Ave., Buffalo 11, N. Y.
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn. "OTC."
P & C Hand Forged Tool Co., Box G, Milwaukie, Ore.
Park Metalware Co., Thorne Ave. & B. R. & P. Tracks, Orchard Park, N. Y. "Excel."
Peck, Stowe & Wilcox Co., 217 Center St., Southington, Conn. "Pexto."
Peterson Mfg. Co., De Witt, Neb. "Vise-Grip." (Toggle type.)
Plomb Tool Co., 2209 Santa Fe Ave., Los Angeles, Calif. "Proto."
Polaris Products, Inc., 1006 S. Barclay St., Milwaukee, Wis. "Speedgrip."
Pratt & Whitney, Div. Niles-Bement-Pond Co., Charter Oak Blvd., West Hartford, Conn.
Precision Electric Tool & Mfg. Co., 98 Union St., Worcester 8, Mass. (Insulated.)
Quality Tool Corp., New Wilmington, Pa. "Oldforge."
Reiff & Nester Co., Lykens, Pa.

Budd Wheel distributors provide the same service illustrated on the opposite page

AKRON—Motor Rim Manufacturers Co.
ALBANY—Wheels, Incorporated
ALBUQUERQUE—Wheels & Brakes, Inc.
ATLANTA—Harris Automotive Service, Inc.
BALTIMORE—R. W. Norris & Sons, Inc.
BIRMINGHAM—Cruse-Crawford Wheel & Rim Co.
BOSTON—New England Wheel & Rim Co.
BUFFALO—Frey, the Wheelman, Inc.
CHARLOTTE—Carolina Rim & Wheel Co.
CHICAGO—Stone Wheel, Inc.
CINCINNATI—Rim & Wheel Service, Inc.
CLEVELAND—Motor Rim Manufacturers Co.
COLUMBUS—Hayes Wheel & Spring Service
DALLAS—Southwest Wheel, Inc.
DAVENPORT—Stone Wheel, Inc.
DAYTON—Rim & Wheel Service, Inc.
DENVER—Quinn & McGill Motor Supply Co.
DES MOINES—Des Moines Wheel & Rim Co.
DETROIT—H. & H. Wheel Service, Inc.
FARGO—Wheel Service Company
GRAND RAPIDS—Rim & Wheel Service Co.
HARRISBURG—Standard Wheel & Rim Co.
HARTFORD—Connecticut Wheel & Rim Co.
HOUSTON—Southwest Wheel, Inc.
INDIANAPOLIS—Indiana Wheel & Rim Co.
JACKSONVILLE—Southeast Wheel & Rim Co.
KANSAS CITY—Borbein, Young & Co.
KNOXVILLE—Harris Automotive Service, Inc.
LOS ANGELES—Wheel Industries, Inc.
LOUISVILLE—Auto Wheel & Rim Service
MEMPHIS—Beller Wheel, Brake & Supply Co.
MILWAUKEE—Stone Manufacturing Co.
MINNEAPOLIS—Wheel Service Co.
MOLINE—Mutual Wheel Co.
NASHVILLE—Beller Wheel, Brake & Supply Co.
NEWARK—Automotive Safety Inc.
NEW HAVEN—Connecticut Wheel & Rim Co.
NEW ORLEANS—Southern Wheel & Rim Co.
NEW YORK—Wheels, Incorporated
OKLAHOMA CITY—Southwest Wheel, Inc.
OMAHA—Morgan Wheel & Equipment Co., Inc.
PEORIA—Peoria Wheel & Rim Co.
PHILADELPHIA—Thomas Wheel & Rim Company
PITTSBURGH—Wheel & Rim Sales Co.
PORTLAND—Six Robblees, Inc.
PROVIDENCE—New England Wheel & Rim Company
RALEIGH—Carolina Rim & Wheel Co.
RICHMOND—Dixie Wheel Co.
ROCHESTER—Frey, the Wheelman, Inc.
SALT LAKE CITY—Henderson Rim & Wheel Service
SAN ANTONIO—Southwest Wheel, Inc.
SAN FRANCISCO—Wheel Industries, Inc.
SEATTLE—Six Robblees, Inc.
SOUTH BEND—Wire & Disc Wheel Sales & Service
SPOKANE—Bearing & Rim Supply Co.
SPRINGFIELD, ILL.—Illinois Wheel & Rim Co.
SPRINGFIELD, MO.—Borbein, Young & Co.
ST. LOUIS—Borbein, Young & Co.
SYRACUSE—Colbourn Wheel & Rim Service, Inc.
TACOMA—Six Robblees, Inc.
TOLEDO—Wheel & Rim Sales Co.
WICHITA—Borbein, Young & Co.

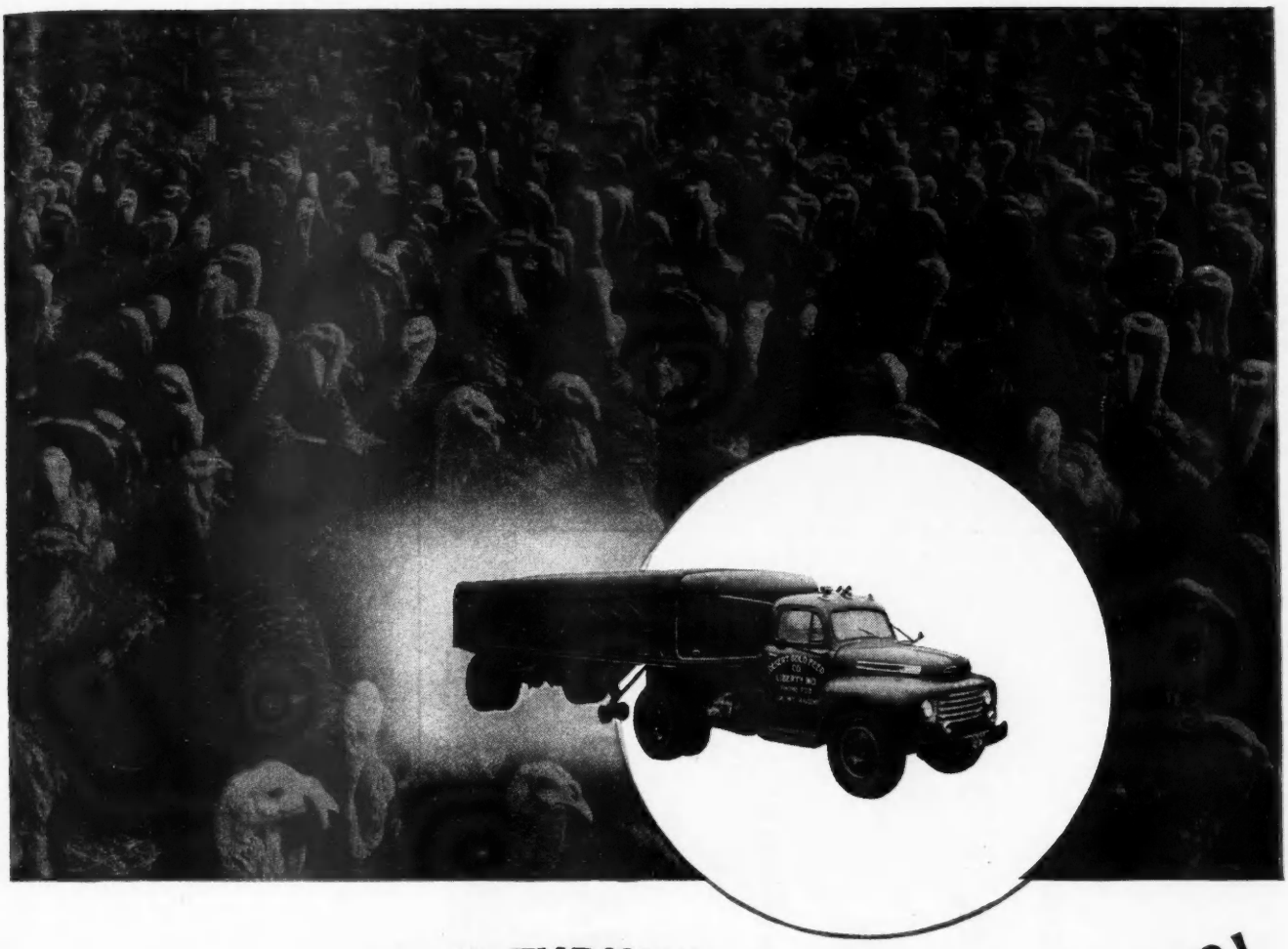
EXPORT
CLEVELAND—C. O. Brandes, Inc.

CANADA
CALGARY—Fisk Tire Service Ltd.
EDMONTON—Alberta Wheel Distributors, Ltd.
MONTREAL—General Auto Equipment Ltd.
TORONTO—Wheel & Rim Co. of Canada, Ltd.
VANCOUVER—Wheels & Equipment, Ltd.
WINNIPEG—Ft. Garry Tire Service Ltd.

GENUINE Budd COLD TAPERED DISC WHEEL

1285.33

3870.33



THIRTY THOUSAND TURKEYS and TIRE TROUBLE TOO!

Carl Rach, the Borbein-Young and Company's branch manager in Kansas City, Mo., writes: "About a year ago, I called on Mr. Leon Miller, owner of the Desert Gold Turkey Farms and Feed Company of Liberty, Missouri. Mr. Miller's operation is a complete one—he produces his own feed, raises and wholesales 30,000 turkeys a year. To transport both feed and turkeys he maintains a fleet of five tractor and trailer units, plus nine straight trucks all equipped with Budd wide base wheels."

Carl goes on to quote Mr. Miller: "'The feed business is fine, and we have this turkey raising down to a science, but transportation is giving us trouble. Our tires just can't take it.'

"So," says Carl, "Leon Miller called in John D. Scott of the Leacox and Scott Tire Company, who recommended a tire change, and offered to guarantee a 40% mileage increase if a change to Budd wide base rims was also made. That's all Miller needed to hear! The changeovers were made.

"I saw Leon Miller again last week. Said he: 'The new combination did the trick. Budd wide base rims are so easy on sidewalls that blowouts have become a thing of the past. Budd Wheels run true . . . our tire wear is even. Mileage has definitely increased the 40%!'"

There is a complete list of Budd Wheel distributors on the opposite page. Check with the one near you . . . he handles the only *complete* line with advanced rims. Let him show you how the perfect wheel and tire combination can increase your efficiency, save you money. No obligation, naturally. The Budd Company, Detroit 14.

Look for this label (in blue, red and gold) on the rim of every genuine Budd Wheel.

3870-1

TOOLS, Hand—cont.

Reinhard-McCabe Co., 123 14th Ave., S. Minneapolis 4, Minn. "Remco."
Reltool Corp., 712 W. Michigan St., Milwaukee 3, Wis.
Rhode Island Tool Co., 148 W. River St., Providence 1, R. I.
Richards Co., J. A., 903 N. Pitcher St., Kalamazoo 13F, Mich. (Rubber products.)
Roberts Toledo Rubber Co., Prospect & MC RR., Toledo 6, Ohio.
Rubbercraft Corp. of Calif., Ltd., 110 E. 17th St., Los Angeles, Calif. (Rubber mallets.)
St. Pierre Chain Corp., Frank St., Worcester, Mass.
Sherman-Klove Co., 3535 W. 47th St., Chicago 32, Ill. "S-K."
Smith & Son, Inc., Seymour, Oakville, Conn. "Snap-Lock." (Sole distributors, John H. Graham & Co., 105 Duane St., New York, N. Y.)
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. "Blue Point," "Snap-On."
Standard Pressed Steel Co., Jenkintown, Pa. "Hallowell."
Standard Tool Co., 6900 Central Ave., Cleveland 4, Ohio. "Shield Brand."
Stanley Tools, 111 Elm St., New Britain, Conn.
Starrett Co., L. S., 1 Crescent St., Athol, Mass.
Stevens-Walden, Inc., 475 Shrewsbury St., Worcester, Mass. "Walden-Worcester."
Stortz & Son, John, 210 Vine St., Philadelphia 6, Pa.
Sweeney Mfg. Co., B. K., 1601 23rd St., Denver, Colo. "Powerench."
Thorsen Tool Co., 5321 Horton St., Emeryville, Calif.
Toledo Steel Products Co., 2001 Toledo Trust Bldg., Toledo, Ohio.
Tri-Grip Co., 2053 Twelfth St., Cuyahoga Falls, Ohio.
Trimont Mfg. Co., Div. of Aetna Industrial Corp., 55 Amory St. (Roxbury), Boston, Mass. "Trimo."
Truth Tool Co., 711 S. Front St., Mankato, Minn.
Tuck Mfg. Co., 74 Ames St., Brockton, Mass.
Union Tool Co., 48 E. River St., Orange, Mass.
Union Twist Drill Co., Monroe St., Athol, Mass.
Union Twist Drill Co., Butterfield Div., Derby Line, Vt.
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York, N. Y.
Ushco Mfg. Co., 135 Tonawanda St., Buffalo 7, N. Y. "Ushco-Lawson."
Utica Drape Forge & Tool Corp., 2500 Whitesboro Rd., Utica 4, N. Y.
Vaco Products Co., 317 E. Ontario St., Chicago 11, Ill. (Plastic.)
Vermont Tap & Die Corp., Main & Grove Sts., Lydonville, Vt.
Vlchek Tool Co., 3001 E. 87th St., Cleveland, Ohio.
Walworth Co., 60 E. 42nd St., New York 17, N. Y. "Genuine Stillson," "Walco."
Western Automatic Machine Screw Co., 752 Lake Ave., Elyria, Ohio.
Whitaker Mfg. Co., 409 S. Greene St., Chicago, Ill.
Whitman & Barnes, Div. of United Drill & Tool Corp., Plymouth, Mich. (Interchangeable.)
Wilde Drop Forge & Tool Co., 2936 Fairmount Ave., Kansas City, Mo.
Williams & Co., J. H., 400 Vulcan St., Buffalo 7, N. Y. "Supersocket."
Wiss & Son Co., J., 33 Littleton Ave., Newark, N. J.
Wood & Spencer Co., 1930 E. 61st St., Cleveland 3, Ohio.
Wright Tool & Forge Co., 42 E. State St., Bakerton, Ohio.
Zoerman-Clark Mfg. Co., Jackson, Mich.

TOOLS, Ignition

Billings & Spencer Co., 1 Laurel St., Hartford 1, Conn. "Vitalloy."
Blackhawk Mfg. Co., 5325 W. Rogers St., Milwaukee 1, Wis.
Bonney Forge & Tool Works, Tilghman & Meadow Sts., Allentown, Pa.
Cornwell Quality Tools Co., Mogadore, Ohio.
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
F. & B. Mfg. Co., 4248 W. Chicago Ave., Chicago 51, Ill. "Filko."
Foster Mfg. Co., 287 Delaware Ave., Buffalo 2, N. Y.
Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio. "Herbrand," "Van Chrome."
Hinsdale Mfg. Co., 1724 Walnut St., Chicago 12, Ill.
Indestro Mfg. Co., 2649 N. Kildare Ave., Chicago, Ill.
Kastar, Inc., 200 Lincoln Ave., New York 54, N. Y.
Kem Mfg. Co., 20-21 Wagaraw Rd., Fair Lawn, N. J.
Kennedy Service Tools Co., P. O. Box 38, Mogadore, Ohio.
Loock & Co., R. J., 343 N. Gay St., Baltimore, Md. "Lightnin."
National Ignition Mfg. Co., 521 W. 23rd St., New York, N. Y. "Nimco."
New Britain Machine Co., 140 Chestnut St., New Britain, Conn.
P & C Hand Forged Tool Co., Box G, Milwaukie, Ore.
Plomb Tool Co., 2009 Santa Fe Ave., Los Angeles, Calif. "Proto."
Rovtar Tool-Die Mfg. Co., 2230 S. Wood St., Chicago 8, Ill.
Shaw Co., Joseph, 6225 Benore Rd., Toledo 12, Ohio.
Sherman-Klove Co., 3535 W. 47th St., Chicago 32, Ill. "S-K."
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. "Snap-On," "Blue Point."
Thorsen Tool Co., 5321 Horton St., Emeryville, Calif.
Wilde Drop Forge & Tool Co., 2936 Fairmount Ave., Kansas City, Mo.
Williams & Co., J. H., 400 Vulcan St., Buffalo 7, N. Y.

TOOLS, Piston Pin Removing and Installing

Acorn Mfg. Co., 33rd & Reed Sts., Erie, Pa.
Beard Tool Co., L. O., Andrew & Mill Sts., Lancaster, Pa.
Calvan Machine Products, Inc., 809 S. Water St., Jackson, Mich.
Cornwell Quality Tools Co., Mogadore, Ohio.

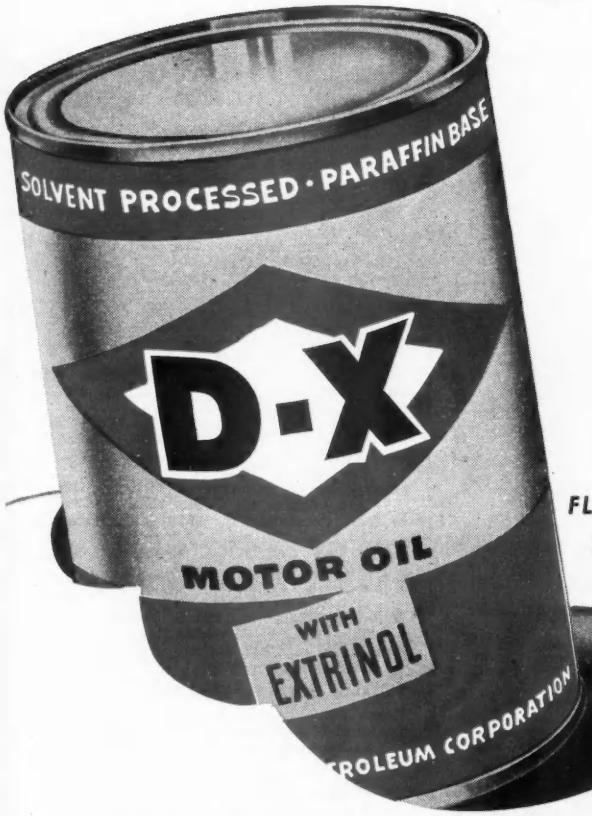
3870-50

To Keep Oil And Profit Levels Up . . . TRY

D-X MOTOR OIL

with

Extrinol



Extrinol is the "extra" that gives D-X Motor Oil the extra stamina needed for cold weather trucking. It helps D-X clean motors, protect bearings and fight sludge. It makes D-X tougher, safer and more economical to use. Prove to yourself that D-X with Extrinol is a better winter oil. Write for details about this great motor oil.

FLEET OWNERS EVERYWHERE ARE CHANGING TO
D-X HEAVY DUTY MOTOR OIL and D-X DIESEL MOTOR OIL, TOO. Ask About Them.

MID-CONTINENT PETROLEUM CORPORATION
TULSA, OKLA.

Waterloo, Ia. • Terre Haute, Ind. • Omaha, Nebr. • Chicago, Ill. • Minneapolis, Minn.

1288-1

TOOLS, Piston Pin Removing and Installing—cont.

Hunt Mfg. Co., Geo. L., 1030 Wisconsin Ave., Boscobel, Wis.
K-D Mfg. Co., 526 N. Plum St., Lancaster, Pa. (For Ford cars.)
New Britain Machine Co., 140 Chestnut St., New Britain, Conn.
Peterson Co., Paul, 1313 W. Randolph St., Chicago 7, Ill. "Webco."
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.
Thorsen Tool Co., 5321 Horton St., Emeryville, Calif.
Wilde Drop Forge & Tool Co., 2936 Fairmount Ave., Kansas City, Mo.
Wudel, Edmund J., 6422 S. Central Ave., Los Angeles 6, Calif. "Vixen."
Zoerman-Clark Mfg. Co., Jackson, Mich.

TOOLS, Piston Ring Groove Cleaning

Acorn Mfg. Co., 33rd & Reed Sts., Erie, Pa. "Amco."
Advertising Distributors, Inc., 5046 Shaw Ave., St. Louis 10, Mo. "A.D.I."
Aircraft Specialties, Inc., Howard & Higley Sts., Lapeer, Mich. "A.S.C."
All-Power Mfg Co., 202 Roosevelt Ave., Montebello, Calif.
Calvan Machine Products, Inc., 809 S. Water St., Jackson, Mich.
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill. "Duro-Chrome."
Hastings Mfg. Co., 375 E. Mill St., Hastings, Mich.
Hunt Mfg. Co., Geo. L., 1030 Wisconsin Ave., Roscobel, Wis.
Kennedy Service Tools Co., P. O. Box 38, Mogadore, Ohio.
Master Signal Co., 2465 W. Grand River Ave., Howell, Mich.
Miller Co., L. B., 394 State St., Stamford, Conn.
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
New Britain Machine Co., 140 Chestnut St., New Britain, Conn.
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn. "OTC."
Perfect Circle Corp., 552 Washington St., Hagerstown, Ind. (Perfect Circle Manulathe.)
Peterson Co., Paul, 1313 W. Randolph St., Chicago 7, Ill. "Webco."
Plomb Tool Co., 2209 Santa Fe Ave., Los Angeles, Calif.
Rex Mfg. Co., 415 Lake Ave., Racine, Wis.
Rinck-McIlwaine, Inc., 16 Hudson St., New York 13, N. Y. "Rimac."
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. "Blue Point."
Stromgren Co., Charles D., 935 W. 12th St., Los Angeles 15, Calif. "Sta-Put."
Truth Tool Co., 711 S. Front St., Mankato, Minn.
Wilde Drop Forge & Tool Co., 2936 Fairmount Ave., Kansas City, Mo.
Wilkening Mfg. Co., 2000 S. 71st St., Philadelphia 42, Pa. "Pedrick."
Zim Mfg. Co., 3037 Carroll Ave., Chicago, Ill.
Zoerman-Clark Mfg. Co., Jackson, Mich.

TOOLS, Piston Ring Compressing

Acorn Mfg. Co., 33rd & Reed Sts., Erie, Pa. "Amco."
Actus Corp., 10-14 N. Bleeker St., Mount Vernon, N. Y.
Advertising Distributors, Inc., 5046 Shaw Ave., St. Louis 10, Mo. "A.D.I."
Aircraft Specialties, Inc., Howard & Higley Sts., Lapeer, Mich. "A.S.C."
All-Power Mfg. Co., 202 Roosevelt Ave., Montebello, Calif.
American Automatic Devices Co., Throop, Harrison & Congress Sts., Chicago 7, Ill. "Adco."
Calvan Machine Products, Inc., 801 S. Water St., Jackson, Mich.
Cornwell Quality Tools Co., Mogadore, Ohio.
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill. "Duro Chrome."
Grayson Tool Co., Hastings, Neb.
Hastings Mfg. Co., 375 E. Mill St., Hastings, Mich.
K-D Mfg. Co., 526 S. Washington St., Lancaster, Pa.
Kennedy Service Tools Co., P. O. Box 38, Mogadore, Ohio.
Lisle Corp., 809 E. Main St., Clarinda, Iowa.
Master Signal Co., 2465 W. Grand River Ave., Howell, Mich. "Master," "Standard."
Miller Co., L. B., 394 State St., Stamford, Conn.
New Britain Machine Co., 140 Chestnut St., New Britain, Conn.
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn.
Peterson Co., Paul, 1313 W. Randolph St., Chicago 7, Ill. "Webco."
Plomb Tool Co., 2209 Santa Fe Ave., Los Angeles, Calif. "Proto."
Rex Mfg. Co., 415 Lake Ave., Racine, Wis.
Rinck-McIlwaine, Inc., 16 Hudson St., New York 13, N. Y. "Rimac."
Schartow Iron Products Co., 16th St. & Junction Ave., Racine, Wis. "Sipco."
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. "Blue Point."
Stromgren Co., Charles D., 935 W. 12th St., Los Angeles 15, Calif. "Sta-Put."
Sunnen Products Co., 7910 Manchester Ave., St. Louis 17, Mo.
Truth Tool Co., 711 S. Front St., Mankato, Minn.
Wilde Drop Forge & Tool Co., 2936 Fairmount Ave., Kansas City, Mo.
Wilkening Mfg. Co., 200 S. 71st St., Philadelphia 42, Pa. "Pedrick."
Zim Mfg Co., 3037 Carroll Ave., Chicago, Ill.

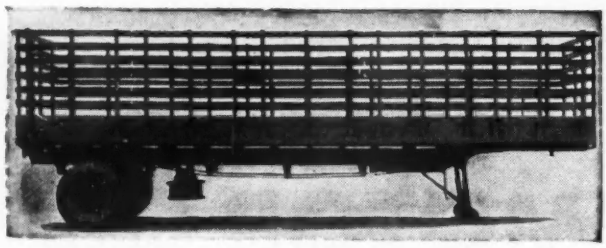
TOOLS, Spring Spreading

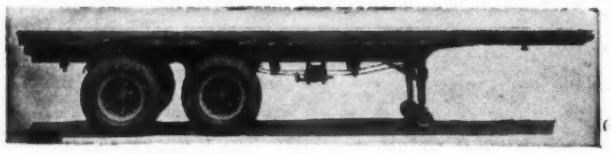
Mesco Products, Crete, Nebr.
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
New Britain Machine Co., 140 Chestnut St., New Britain, Conn.
Truth Tool Co., 711 S. Front St., Mankato, Minn. (For Ford cars.)
Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "K.R.W."
Zoerman-Clark Mfg. Co., Jackson, Mich.

TOOLS, Tire

Balloon Tire Mould Co., 527 Ceres Ave., Los Angeles 13, Calif. "Brown."

TEC TRAILERS



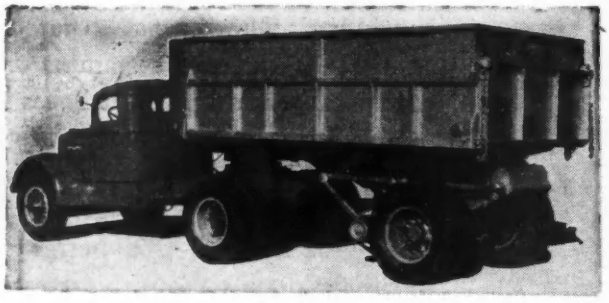


VANS
STAKES
FLATS

Single and Tandem Axle. All Sizes and Models

DUMP UNITS

For Bulk Hauling of Coal, Sand, Gravel and Other Materials



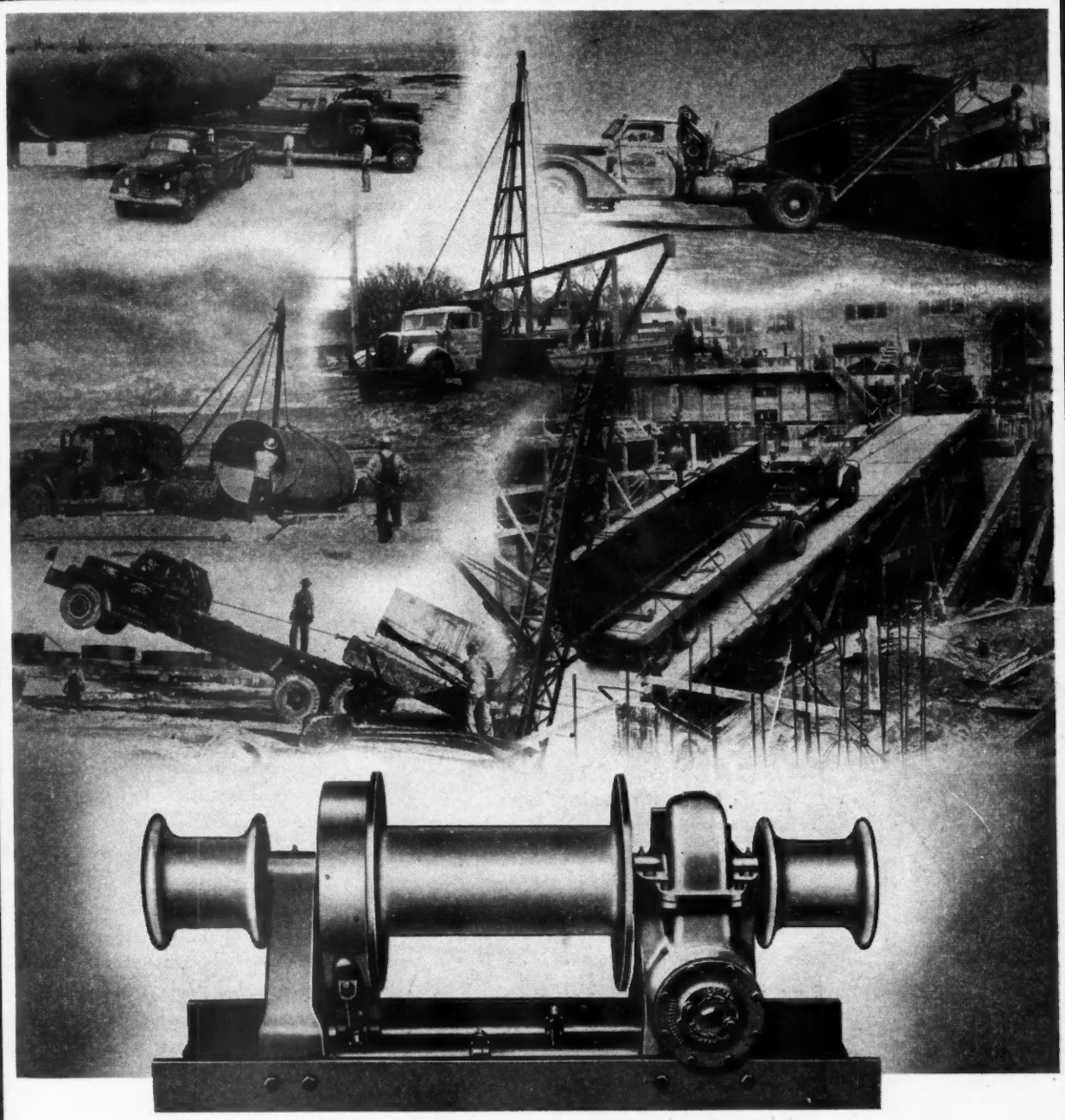
TEC TRAILERS are designed to haul maximum payload with minimum dead weight, and provide long life with low maintenance cost. Prompt delivery can be made on standard models.

TEC
TRUCK ENGINEERING CORP.

Some Distributor Territory Available

TRUCK ENGINEERING CORP.
CLEVELAND 2, OHIO

3814-50



. . . how *Tulsa Winch* can work!

This all-purpose winch can smoothly and purposefully inch huge loads up on the bed of the truck — swiftly hoist and safely hold structural pieces in steel erection — load and unload flat cars — do the thousand-and-one jobs which pop up on construction of any kind. Tulsa Winch stands up under the gruelling punishment of desert heat or arctic cold without special adjustments or lubricants. Your truck will do more work — earn more dollars — anywhere and on every job when equipped with strong, dependable Tulsa Winch. Get more profits from your trucks by installing Tulsa Winches. For more information write address below.

Tulsa Winch

TULSA, OKLAHOMA DIVISION OF VICKERS Inc.

2030-1

To Form a More Perfect Union
USE PURITAN GASKA-SEALS

Puritan Gaska - Seals 1, 2, 3, are the gasketing materials that can handle any gasketing job in the automotive field. They enable the service man to form perfect unions that last—withstanding anti-freeze, low or high temperatures. And when you use Puritan GASKA-SEALS you are making a more perfect union — lasting jobs that stand up.

GASKA-SEAL NO. 1
Hardening Type

Spreads easily. Sticks quickly. Sets hard. Especially recommended for water connections, push rod covers, oil pan, valve plates, transmission, differential housings. Resistant to anti-freeze and high temperatures.

GASKA-SEAL NO. 2
Non-Hardening Type

Spreads easily. Seals tightly but stays soft and pliable—easy to remove. Recommended for head gaskets, crank case assemblies, thermostat connections, oil and gas connections, etc. Resistant to anti-freeze and high temperatures.

GASKA-SEAL NO. 3
Liquid Type

Goes on with a brush. Stays permanently elastic at temperatures from 75°F below zero to 500°F above. Unaffected by gasoline, oil, anti-freeze or other automotive liquids. Use on all types of gaskets from metal-faced to natural rubbers. Use alone where close tolerances are required. Adhesive to all surfaces. Forms permanent seal but makes disassembly easy. Convenient-to-use can with long handle brush.

Keep these three Puritan GASKA-SEALS on hand. Each has its specific uses. With all three you are ready for any gasketing job. Order from your NAPA Jobber.

In Canada, F. R. RUSSELL
37 Croydon Rd., Toronto 10, Ontario

PURITAN COMPANY, INC.
ROCHESTER 6, NEW YORK

HYDRAULIC BRAKE FLUID AND FLUSHING FLUID • GASKA-SEAL NO. 1, 2 AND 3
SHOCK, JACK AND KNEE-ACTION OIL

If you cannot find the product classification you seek, see "Specialized Products," on Page 254.

TOOLS, Tire—*cont.*

Bishman Mfg. Co., Osseo, Minn.
Blackhawk Mfg. Co., 5325 W. Rogers St., Milwaukee 1, Wis.
Bridgeport Hardware Mfg. Corp., 461 Iranistan Ave., Bridgeport, Conn. "Thor," "Hi-Power."
Burton Auto Spring Corp., 2433 W. 48th St., Chicago 32, Ill.
Calco Steel Products Co., 23 New England Ave., Dorchester 24, Mass. (Bead breaker.)
Cam Tool Co., 288 21st St., Oakland, Calif.
Chicago Tool & Kit Mfg. Co., 667 W. Randolph St., Chicago 6, Ill. "C-T-K."
Cornwell Quality Tools Co., Mogadore, Ohio.
Detroit Surfacing Machine Co., 7433 W. Davison St., Detroit 4, Mich.
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
Fairmount Tool & Forging Co., 10611 Quincy Ave., Cleveland 6, Ohio. (Hammers.)
Greb Co., 181 Canton St., Stoughton, Mass.
Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio. "Herbrand," "Van Chrome."
Hoggson & Pettis Mfg. Co., 141 Brewery St., New Haven, Conn.
Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y. (Pneumatic.)
Indestro Mfg. Co., 2649 N. Kildare Ave., Chicago, Ill.
Kennedy Service Tools Co., P. O. Box 38, Mogadore, Ohio.
Ken Tool Mfg. Co., 768 E. North St., Akron, Ohio.
Kirspel Industries, Inc., 300 Main St., Orange, N. J.
Lectrolite Corp., Hickory St., Defiance, Ohio. "Tru-Fit."
Maremont Automotive Products, Inc., S. Ashland Ave. at 17th St., Chicago, Ill.
Mesco Products, Crete, Nebr. (Trucks.)
Miller Mfg. Co., 5919 Tireman Ave., Detroit 4, Mich.
New Britain Machine Co., 140 Chestnut St., New Britain, Conn.
P & C Hand Forged Tool Co., Box G, Milwaukie, Ore.
St. Pierre Chain Corp., Frank St., Worcester, Mass.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. "Blue Point."
Stackhouse, E. H., 219 N. 63rd St., Philadelphia 39, Pa.
Thorsen Tool Co., 5321 Horton St., Emeryville, Calif.
Tuthill Spring Co., 760 Polk St., Chicago 7, Ill. "Titanic."
Universal Tire Tool Co., 916 Fifth Ave., N., Birmingham, Ala.
Vlchek Tool Co., 3001 E. 87th St., Cleveland 4, Ohio.
Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill.

TOOLS, Tire Chain Attaching

A & B Sales Corp., 39 Long Ave., Hillside 5, N. J. "Mity Quick Chain-On."
Hodell Chain Co., 3924 Cooper Ave., Cleveland, Ohio.
Wilde Drop Forge & Tool Co., 2936 Fairmount Ave., Kansas City, Mo.

TOOLS, Tire Chain Repair

American Chain Div. of American Chain & Cable Co., 929 Connecticut Ave., Bridgeport, Conn. "Weed."
Bridgeport Chain & Mfg. Co., 1201 Crescent Ave., Bridgeport, Conn.
Columbus-McKinnon Chain Corp., Tonawanda, N. Y. "Dreadnaught."
McKay Co., 1005 Liberty Ave., Pittsburgh 22, Pa.
Manley Mfg. Div., American Chain Co., E. Princess & Charles Sts., York, Pa.
Porter, Inc., H. K., 74 Foley St., Somerville 43, Mass. "Linkfix," "Linkmaster."
St. Pierre Chain Corp., Frank St., Worcester, Mass. "Giant."

TOOLS, Tire Removing and Replacing

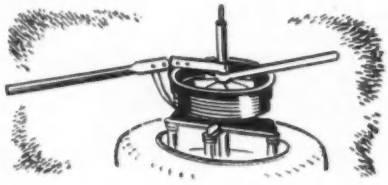
Branick Mfg. Co., Fargo, N. D.
Coats Loaders & Stackers, Inc., 3001 Fifth Ave., S., Fort Dodge, Iowa. "Iron Tireman."
Gemco Products Co., Murray Rd. & Big Four R. R., Cincinnati 17, Ohio.

2142-66

FOR HIGHEST PERFORMANCE
LOWEST MAINTENANCE COST
REPLACE WITH THE PISTON THAT'S "ENGINEER APPROVED"
ZOLLNER HEAVY DUTY
There is a correctly engineered Zollner Piston for every heavy duty engine service — gasoline or Diesel
Used and Recommended by over 70% of all Truck and Bus Manufacturers
ZOLLNER
ORIGINAL EQUIPMENT IN AMERICA'S FINEST MOTORS
HEAVY DUTY PISTON EQUIPMENT
ZOLLNER MACHINE WORKS
FORT WAYNE, INDIANA

1841-1

TOOLS, Tire Removing and Relacing—cont.



Kehawke Mfg. Co., 718 Ellis St., Muncie, Ind. (Pneumatic.)
Lee Engineering Co., 500 Central Ave., Pawtucket, R. I. "Presto." (Hand or hydraulically operated.)
Wats Mfg. Enterprises, 7400 N. E. Seneca Ave., Miami 38, Fla. "Tirematic."
Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill.

TOOLS, Tire Spreading

Balloon Tire Mould Co., 527 Ceres Ave., Los Angeles 13, Calif. "Brown."
Bear Mfg. Co., 21st St. & Fifth Ave., Rock Island, Ill. "Bear Jiffy."
Bishman Mfg. Co., Osseo, Minn.
Bowes "Seal Fast" Corp., 228 N. Pine St., Indianapolis 7, Ind.
Center Line Mfg. Co., 506 N. Wichita St., Wichita, Kan.
Char-Lynn Co., 2843 26th Ave., S., Minneapolis 6, Minn.
Cornwell Quality Tools Co., Mogadore, Ohio.
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
Gross Mfg. Co., 1711 California St., Monrovia, Calif.
Inland Rubber Corp., 33 S. Clark St., Chicago 3, Ill.
Keel & Co., 65 W. Penn St., Philadelphia 44, Pa. "Klear-Vu," "Visaversa."
Kehawke Mfg. Co., 718 Ellis St., Muncie, Ind. (Pneumatic.)
Kennedy Service Tools Co., P. O. Box 28, Mogadore, Ohio. (Air, hand and hydraulic.)
Ken Tool Mfg. Co., 768 E. North St., Akron, Ohio.
Leterstone Sales Co., 2515 S. Wabash Ave., Chicago, Ill.
Manley Mfg. Div., American Chain & Cable Co., E. Princess & Charles Sts., York, Pa.
Mesco Products, Crete, Nebr.
Miller Mfg. Corp., C. E., 1400 Meridian St., Anderson, Ind.
New Britain Machine Co., 140 Chestnut St., New Britain, Conn.
P & C Hand Forged Tool Co., Box G, Milwaukie, Ore.
Power Pak Products, Inc., 43 Pearl St., Buffalo 2, N. Y. (Pneumatic.)
Stackhouse, E. H., 219 N. 63rd St., Philadelphia 39, Pa.
Zoerman-Clark Mfg. Co., Jackson, Mich.

TOOLS, Tire Valve Rethreading

Acme Air Appliance Co., 100 Hinsdale St., Glenmore, Brooklyn 7, N. Y.
Dill Mfg. Co., 700 E. 82nd St., Cleveland 3, Ohio.
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
G. M. Co Mfg. Co., 43-10 21st St., Long Island City, L. I., N. Y.
Indestro Mfg. Co., 2649 N. Kildare Ave., Chicago, Ill.
Kennedy Service Tools Co., P. O. Box 38, Mogadore, Ohio.
Ken Tool Mfg. Co., 768 E. North St., Akron, Ohio.
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
Planet Metal Products Corp., 964 Dean St., Brooklyn 16, N. Y.
Schrader's Son Div. of Scovill Mfg. Co., A., 470 Vanderbilt Ave., Brooklyn 17, N. Y.

TOOLS, Tube Flaring

Acorn Mfg. Co., 33rd & Reed Sts., Erie, Pa. "Amco."
Armstrong Mfg. Co., 303 Knowlton St., Bridgeport 8, Conn.
Calvan Machine Products, Inc., 801 S. Water St., Jackson, Mich.
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
Edelmann & Co., E., 2332 Logan Blvd., Chicago 47, Ill. "Erco."
Everhot Products Co., 2001 W. Carroll Ave., Chicago 12, Ill. "Flaremaster."
Exello Accessories Mfrs., Inc., 81 Madison Ave., Hempstead, N. Y.
G. M. Co Mfg. Co., 43-10 21st St., Long Island City, L. I., N. Y.
Hunt Mfg. Co., Geo. L., 1030 Wisconsin Ave., Boscobel, Wis.
Imperial Brass Mfg. Co., 1234 W. Harrison St., Chicago 7, Ill.
J & J Machine Co., 15420 St. Clair Ave., Cleveland 10, Ohio. "Jet-Vac," (Sole distributors, Beal Bros., Inc., Box 86, Cleveland, Ohio.)
Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
New Britain Machine Co., 140 Chestnut St., New Britain, Conn.
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn. "OTC."
Parker Appliance Co., 17325 Euclid Ave., Cleveland 12, Ohio.
Penn Brass & Copper Co., Powell Ave., Erie, Pa.
Stevens Walden, Inc., 475 Shrewsbury St., Worcester, Mass.
Zoerman-Clark Mfg. Co., Jackson, Mich.

TOOLS, Valve Grinding or Lapping (Hand)

Albertson & Co., 3100 Lowell Ave., Sioux City, Iowa. "Sioux."
Carston Mfg. Co., 431 W. 28th St., New York 1, N. Y.
Central Auto Ignition Co., 2230 S. Wood St., Chicago, Ill.
Cornwell Quality Tools Co., Mogadore, Ohio.
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
G. M. Co Mfg. Co., 43-10 21st St., Long Island City, L. I., N. Y.
K-D Mfg. Co., 526 N. Plum St., Lancaster, Pa. (Vacuum.)
Kennedy Service Tools Co., P. O. Box 38, Mogadore, Ohio.

ORRVILLE SLEEPER CABS

YEARS of service on all makes of truck chassis have proven Orrville Sleeper Cabs unsurpassed by any other units.

Cabs are available for all standard chassis.

Standard equipment includes:

1. 5 Marker Lights
2. Full Seat Cushions and Lazy Back Built of 2 stage Spring Construction and covered with best grade imitation leather
3. Windshield Wiper
4. Rear View Mirror
5. Inner Spring Mattress
6. Ventilating Quarter Windows.

Cabs can be mounted at our factory, or crated for shipment.

MFRS. OF SLEEPER CABS, SPECIAL CABS, CREW CABS AND CUSTOM BUILT BODIES AND GRADER CABS

The Orrville Body Co.

Orrville, Ohio

3831-50

Fleet Operators Praise Fram Engine Savers

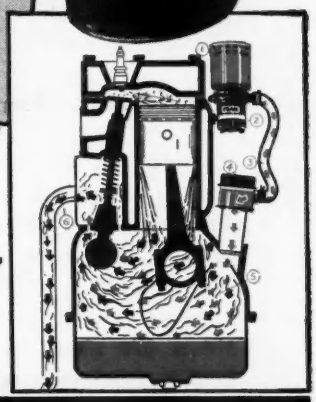
"Have cut our operating costs 50%," says Louisiana fleet operator, "due to the efficiency of these filters in removing all harmful sludge, grit, etc."

"I operate buses, cars, trucks in hard city operation. One Fram-equipped bus shows over 60,000 miles . . . has never been touched with a wrench."

Fram Oil & Motor Cleaners save fleet engines, cut costs. Remove abrasives and corrosives. Outside-in flow assures greatest filtering area. Longer engine life.

Fram Filcron Cartridges remove particles down to one micron (.000039 of an inch) . . . offer highest clean oil flow rate, maximum dirt capacity, longer cartridge life, lowest clean oil cost per mile. Non-abrasive filtering media. Won't remove additives from compounded oils.

Fram Positive Crankcase Ventilator stops excessive sludging conditions. Cuts operating and repair costs. Combines Fram Crankcase Air Filter with electrically driven blower to provide continuous uniform crankcase ventilation regardless of engine or vehicle speed. Circulates clean filtered air through crankcase and out road draft tube carrying away corrosive blow-by gases before they contaminate the oil.



Cut YOUR Costs with FRAM COMPLETE ENGINE PROTECTION

Seal out engine-killing dirt, dust, grit and abrasives that enter from the outside by installing Fram Carburetor Air Filters, Fram Fuel Filters, Fram Positive Crankcase Ventilators. Remove contaminants as fast as they form on the inside with Famous Fram Oil & Motor Cleaners. Test all four on your fleet and get Complete Engine Protection.

You don't risk a red cent. If, within 90 days you feel you can afford to be without this protection, your money will be cheerfully refunded.

FRAM CORPORATION, Providence 16, R. I. *In Canada:* J. C. Adams Co., Ltd., Toronto, Ontario.

For Complete Engine Protection

FRAM

OIL - AIR - FUEL

FILTERS

2241-1

TOOLS, Valve Grinding or Lapping (Hand)—cont.

Loock & Co., R. J., 343 N. Gay St., Baltimore, Md. "Lightnin."
New Britain Machine Co., 140 Chestnut St., New Britain, Conn.
Perfection Automotive Products Corp., 925 W. Elizabeth St., Detroit 1, Mich.
Rex Mfg. Co., 415 Lake Ave., Racine, Wis.
Rinck-McIlwaine, Inc., 16 Hudson St., New York 13, N. Y. "Rimac."
Rovtar Tool-Die Mfg. Co., 2230 S. Wood St., Chicago 8, Ill.
Schartow Iron Products Co., 16th St. & Junction Ave., Racine, Wis. "Sipco."
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. "Blue Point."
Spraker Mfg. Co., 1411 E. 20th St., Indianapolis 7, Ind.
Zim Mfg. Co., 3037 Carroll Ave., Chicago, Ill.

TOOLS, Valve Guide Cleaning

Actus Corp., 10-14 N. Bleeker St., Mount Vernon, N. Y.
C-B Tool Co., Wabank Rd., Lancaster, Pa. (Hand.)
Calvan Machine Products, Inc., 809 S. Water St., Jackson, Mich.
Cornwell Quality Tools Co., Mogadore, Ohio.
Kennedy Service Tools Co., P. O. Box 38, Mogadore, Ohio.
Lee Co., K. O., Congress at First Ave., S. E., Aberdeen, S. D. "Knock Out."
Lisle Corp., 809 E. Main St., Clarinda, Iowa.
Miller Co., L. B., 394 State St., Stamford, Conn.
New Britain Machine Co., 140 Chestnut St., New Britain, Conn.
Pittsburgh Plate Glass Co. (Brush Div.), 3221 Frederick Ave., Baltimore 29, Md. "Even Trim." (Brushes, for hand use or with portable drills.)
Plomb Tool Co., 2209 Santa Fe Ave., Los Angeles 54, Calif. "Proto."
Rinck-McIlwaine, Inc., 16 Hudson St., New York 13, N. Y. "Rimac."
Scully Steel Products Co., 1319 Wabansia Ave., Chicago, Ill. "Ruggles Perfection." (Hand.)
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. "Blue Point."
United States Electrical Tool Co., 1050 Findlay St., Cincinnati 14, Ohio. (For use with electric drills.)
Waterbury Tool, Div. of Vickers, Inc., 188 E. Aurora St., Waterbury 91, Conn. "Waterbury Hall."
Wilde Drop Forge & Tool Co., 2936 Fairmount Ave., Kansas City, Mo.

TOOLS, Valve Guide Installing and Removing

Advertising Distributors, Inc., 5046 Shaw Ave., St. Louis 10, Mo. "A.D.I."
All-Power Mfg. Co., 202 Roosevelt Ave., Montebello, Calif. (For Ford cars.)
Bishman Mfg. Co., Osseo, Minn.
Chicago Pneumatic Tool Co., 6 E. 44th St., New York. "CP." (Pneu-draulic.)
Cornwell Quality Tools Co., Mogadore, Ohio.
K-D Mfg. Co., 526 N. Plum St., Lancaster, Pa.
Lisle Corp., 809 E. Main St., Clarinda, Iowa.
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
Thompson Products, Inc., 2196 Clarkwood Rd., Cleveland 3, Ohio.
Zim Mfg. Co., 3037 Carroll Ave., Chicago 12, Ill.

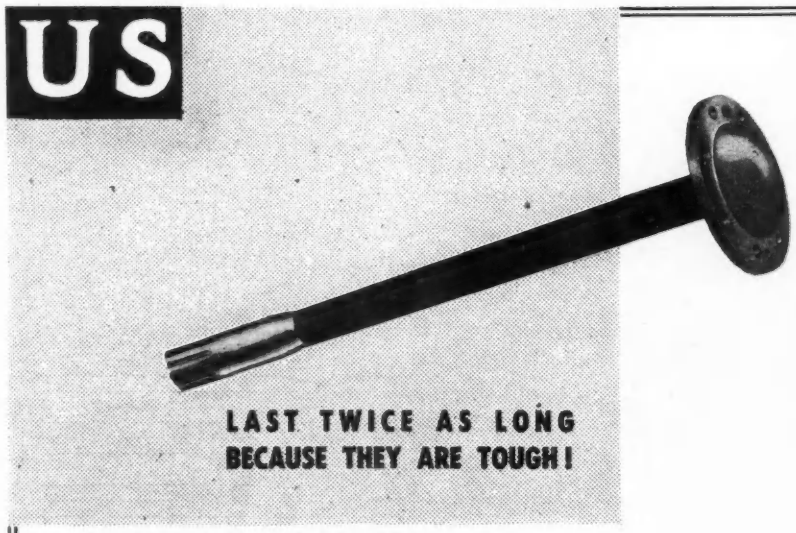
TOOLS, Valve Lifting and Spring Compressing

All-Power Mfg. Co., 202 Roosevelt Ave., Montebello, Calif. (For Ford cars.)
Associated Producers, Inc., 1603 Fisher Bldg., Detroit 2, Mich. "Easy-Way."
Cornwell Quality Tools Co., Mogadore, Ohio.
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
Grayson Tool Co., Hastings, Neb.
Hastings Mfg. Co., 375 E. Mill St., Hastings, Mich.
Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio. "Herbrand," "Van Chrome."
Indestro Mfg. Co., 2649 N. Kildare Ave., Chicago, Ill.
K-D Mfg. Co., 526 N. Plum St., Lancaster, Pa.
Kennedy Service Tools Co., P. O. Box 38, Mogadore, Ohio.
Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
Minnesota Automotive, Inc., 1328 Hennepin Ave., Minneapolis 3, Minn. "Slick."
Neco Products Co., New Castle, Ind. (For Ford cars.)
New Britain Machine Co., 140 Chestnut St., New Britain, Conn.
Owatonna Tool Co., 342 N. Cedar St., Owatonna, Minn. "OTC."
Plomb Tool Co., 2209 Santa Fe Ave., Los Angeles, Calif.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. "Blue Point."
Stevens Walden, Inc., 475 Shrewsbury St., Worcester, Mass.
Sunnen Products Co., 7910 Manchester Ave., St. Louis 17, Mo.
Truth Tool Co., 711 S. Front St., Mankato, Minn.
Waterloo Valve Spring Compressor Co., 300 Ansborough Ave., Waterloo, Iowa. "Little Wonder."
Wilde Drop Forge & Tool Co., 2936 Fairmount Ave., Kansas City, Mo.
Wilson, K. R., 215 Main St., Buffalo 3, N. Y. "KRW-Zim."
Zim Mfg. Co., 3037 Carroll Ave., Chicago, Ill.

TOOLS, Valve Seat Installing

Cedar Rapids Engineering Co., 902 N. 17th St., Cedar Rapids 1, Iowa. "Kwik-Way."
Hub City Iron Co., 218 First Ave., S. W., Aberdeen, S. D.
Lee Co., K. O., Congress at First Ave., S. E., Aberdeen, S. D. "Knock Out."
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
Peterson Co., Paul, 1313 W. Randolph St., Chicago 7, Ill. "Webco."
Speaker Mfg. Co., 1440 E. 19th St., Indianapolis, Ind.
Waterbury Tool, Div. of Vickers, Inc., 188 E. Aurora St., Waterbury 91, Conn. (Hand and power.)

US



Write for US Latest Catalog Today

FOR *any* MAKE CAR, BUS or TRUCK

Want to get to your destination and back, safely? Then call the jobber who sells U. S. Axle Shafts. You'll find U. S. Axles tough because only the best alloy steels are used, skillfully heat-treated to produce a quality shaft that last longer

Regardless of what your axle shaft needs might be, U. S. Axle Company carries a complete line of shafts. Warehouses conveniently located can give the U. S. jobber prompt delivery. To be sure, make your next call the jobber who sells U. S. Axles.

U S AXLE COMPANY, INC.
Pottstown, Penna.

WAREHOUSES:

ATLANTA 3—Rear 419 Peachtree St., N. E.
BOSTON 34—1356 Commonwealth Ave.
CANADA—34 Duncan St., Toronto
CHICAGO 16—1736 S. Michigan Ave.
DETROIT 1—477 Selden Ave.—P. O. Box 67
LOS ANGELES 7—2805 S. Main St.
NEW YORK 19—250 West 54th St.
PHILADELPHIA 30—1400 North St.
PITTSBURGH 6—5602 Penn Ave.
SAN FRANCISCO—538 Polk St.
EXPORT—Pottstown, Pa., U. S. A.

3824-50

WHY REBUILD AND RE-UPHOLSTER SEAT CUSHIONS?

IT'S THRIFTY

TO REPLACE THEM WITH...

TRAVEL COMFORT CUSHIONS

According to a nationwide survey*, your seat cushions last about two and one-half years. Then, perhaps, you have them rebuilt. If you're like most fleet owners, you and your drivers usually find rebuilt seats an unsatisfactory make-shift.

Now, for the first time, you can replace them with brand new, expertly built Travel Comfort Cushions (seats and backs) for very near the cost of rebuilding your old ones — Cushions which are far superior in quality, comfort, service and satisfaction.

Whether you operate one truck or a hundred . . . whether they're all alike or each a different model . . . McInerney will provide new cushions designed to fit your particular vehicle, made with a spring construction which has been scientifically developed and engineered specifically for truck use and expertly upholstered and tailored in your choice of upholstery materials and coverings.

Travel Comfort Cushions give you a better, longer-lived seating unit which will eliminate road shock, reduce riding fatigue, and provide greater comfort for your drivers.

WRITE FOR information about Travel Comfort Cushions . . . the easy, economical and satisfactory way to solve your seating problems.

TRAVEL COMFORT CUSHIONS

McInerney

*5000 fleet owners and operators surveyed by Commercial Car Journal

SPRING & WIRE COMPANY

679 GODFREY AVENUE, S. W. • GRAND RAPIDS 2, MICHIGAN

3832-1

TOOLS, Valve Seat Refinishing

Albertson & Co., 3190 Lowell Ave., Sioux City, Iowa. "Sioux."
Alvord-Polk Tool Co., 110 Gearhart St., Millersburg, Pa. "Alpo."
Beard Tool Co., L. O. Andrew & Mill Sts., Lancaster, Pa.
Cedar Rapids Engineering Co., 902 N. 17th St., Cedar Rapids 1, Iowa. "Kwik-Way."
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill.
Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
Keystone Reamer & Tool Co., Millersburg, Pa.
Lee Co., K. O., Congress at First Ave., S. E., Aberdeen, S. D. "Knock Out."
New Britain Machine Co., 140 Chestnut St., New Britain, Conn.
Rottler Boring Bar Co., 513 N. 36th St., Seattle, Wash.
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis.
United States Electrical Tool Co., 1050 Findlay St., Cincinnati 14, Ohio.
Van Dorn Electric Tools, Towson 4, Md. "Vibro-Centric."
Van Norman Co., 3640 Main St., Springfield 7, Mass.
Wilson, K. R., 215 Main St., Buffalo 3, N. Y.
Zim Mfg. Co., 3037 Carroll Ave., Chicago, Ill.
Zoerman-Clark Mfg. Co., Jackson, Mich.

TORQUE WRENCHES, See Wrenches, Torque

TOWERS, Repair or Service

(For use in overhead repairs)

Dow Body Co., Henry E., 1600 Chambers St., Trenton 10, N. J. "Trenton Utility."

With W.G.B. Oil Clarofication, good oil does not wear out — because it's kept clean and pure, with all the essential additives and lubricating qualities left in. Add oil as you need it — and change whenever weather (Summer or Winter) dictates that a heavier or lighter oil be used.

What makes this big saving in operation and maintenance possible?

First . . . the W.G.B. Oil Filter Cartridge is made of a specially processed fine cotton — not paper or so-called modern synthetics. This cotton — scientifically processed to absorb the maximum of engine oil impurities—totally eliminates the grit and grime that add-up to cause engine wear, costly breakdowns and repairs.

Second . . . the W.G.B. Oil Filter Cartridge provides "100% depth filtration," with the oil clarified by passage through the entire element — rather than being merely strained, as in common type, hole-in-the-center filters.

Third . . . the W.G.B. Oil Filter Cartridge contains a greater volume of filtering material than any other cartridge of comparable size, with a patented cartridge support and oil distributor construction.

W.G.B. Oil Filter Cartridges are easiest to replace and cost less per mile!

Substitute cartridges cost more—because they do less. The W.G.B. Oil Filter Cartridge costs less per mile . . . CAN BE CHANGED WITHOUT TOOLS — and lasts 40% longer than any other cartridge of its size.

Write for complete details

W.G.B. OIL CLARIFIER, INC.
KINGSTON, N. Y.

Silent Hoist & Crane Co., 841 63rd St., Brooklyn 30, N. Y.

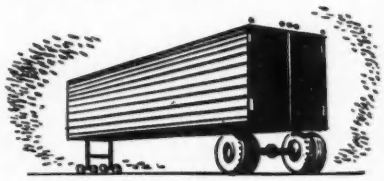
TOWING EQUIPMENT. See Hooks, Tow; also Bars, Towing; also Cranes, Service Truck

TRAILERS, Automobile Transport

La Crosse Trailer Corp., 418 Gould St., La Crosse, Wis.
Mechanical Handling Systems, Inc., 4600 Nancy Ave., Detroit 12, Mich.
Whitehead & Kales., 58 Haltiner St., River Rouge, Mich. "W & K."

TRAILERS, Commercial

Ace Trailer & Equipment Co., H & San Joaquin Sts., Fresno, Cal. (6-wheel, 4-wheel and semi.)
All Steel Welded Truck Co., 1149 Railroad Ave., Rockford, Ill. "Clark." (Two-wheel utility.)
American Bantam Car Co., Bantam Ave. & Pillow St., Butler, Pa. "Supercargo." (Also utility.)
American Body & Trailer, Inc., P. O. Box 1150 Oklahoma City 1, Okla. (Semi.)
American Coach & Body Co., 9503 Woodland Ave., Cleveland 4, Ohio. (Pole and cable reel.)
American Trailer & Mfg. Co., 1011 Santa Fe Ave., Los Angeles 21, Cal. (Also one-wheel type.)
American Truck & Body Co., Martinsville, Va. "Pack-Haulers."
Andrews Industries, Inc., 1013 Ann Ave., St. Louis 4, Mo.
Available Truck Co., 2501 Elston Ave., Chicago 47, Ill. (Semi and four-wheel.)
Baker Equipment Engineering Co., Summit & Norfolk Sts., Richmond 11, Va. (Lumber, log, pole and semi.)



Baker Trailer & Body Co., 700 N. 20th St., St. Louis 3, Mo.
Bartlett Trailer Corp., 3080 Archer Ave., Chicago 8, Ill.
Beal Pipe & Tank Corp., 1945 N. Columbia Blvd., Portland 3, Ore. (Freight, logging and machinery.)
Birmingham Mfg. Co., 2001 N. 50th Way (P. O. Box 2838), Birmingham, Ala. (Low bed machinery.)
Black Diamond Trailer Co., Euclid Ave., Bristol, Va.
Brown Equipment & Mfg. Co., 1775 Broadway, New York 19, N. Y.
Brown Trailers, Inc., Box 54, Spokane 1, Wash. (Aluminum.)
Bunyan Co., Paul, 1602 Cove Ave., La Grande, Oreg. "Paul Bunyan."
Campbell Co., A. S., 161 Prescott St., East Boston 28, Mass. "Campbell's Loadmaster," (Two-wheel utility.)
Carlisle Machine Works, Box 8, Longview, Tex. (Dump, stock and pick-up.)
Chadwick Inc., Seventh St. & Keystone Ave., Darby, Pa.
Commercial Sales Co., Div. of Cochran & Celli, 1100 Eighth Ave., Oakland 6, Calif.
Converto Co., 51st St. & Allegheny Valley R. R., Pittsburgh, Pa. (Dump, two-wheel, cargo and implement.)
Cook Bros. Equipment Co., 3330 San Fernando Rd., Los Angeles 41, Calif.
Corbitt Co., Henderson, N. C. (Semi, van and flat.)
Dart Truck Co., 27th & Oak Sts., Kansas City, Mo. (Semi, 4-wheel, pole & machinery.)
Dorsey Trailers, Elba., Ala. (Semi, 4-wheel and machinery.)
Easton Car & Construction Co., Easton, Pa. (Off-the-highway, for mines, quarries, etc.)
Edwards Iron Works, 2901 S. Main St., South Bend 23, Ind. (Semi, 4-wheel, dump, etc.)
Elcar Coach, Bourbon, Ind. (Sole distributors, Mid-States Trailer Sales, 831 S. Wabash Ave., Chicago 5, Ill.)
Evans Mfg. Co., John, 108 E. Liberty St., Sumter, S. C. (Semi, flat, log, lumber and van.)
F.A.B. Mfg. Co., 1249 67th St., Oakland 3, Cal. "Fabco." (Full, semi and log.)
Feigelson Co., Alex., 500 S. Fourth St., Beaumont, Tex. (Oilfield, logging, low bed, etc.)
Fontaine Truck Equipment Co., 3827 First Ave., N., Birmingham, Ala. (Bus and low-bed machinery.)

2241-50

The thrust that drives any motor vehicle puts high pressure on small gear surfaces. A microscopically thin film of grease must keep metal from metal. Protect transmissions with finest Quaker State Quadrolube, stabilized to resist pressure, heat.

The outstanding virtue of stabilized Quaker State Quadrolube is its stubborn resistance to pressure, heat, cold, moisture, rust and corrosion.

Quaker State Super Quadrolube

Quaker State Viscous Lubricant

Quaker State Wheel Bearing Lubricant

Quaker State Superfine Lubricants

It can give more protection and last longer in your truck or bus transmission and differential systems. Try it.

Quaker State Quadrolube

Quaker State Waterproof Lubricant

Quaker State Universal Joint Lubricant

Quaker State EXPP2 Lubricant

128821

TRAILERS, Commercial—cont.

Four Wheel Drive Auto Co., Eagle Div., 414 E. Winnebago St., Appleton, Wis. (Public utility; sole distributors, Graybar Electric Co., Lexington Ave. & 43rd St., New York 17, N. Y.)
Fruehauf-Carter Div. Fruehauf Trailer Co., 1132 Kansas St., Memphis 2, Tenn.
Fruehauf Trailer Co., 10940 Harper Ave., Detroit 32, Mich.
Gibbes Machinery Co., 1029 Wheat St., Columbia, S. C. (Platform and pole.)
Gindy Mfg. Corp., Downingtown, Pa.
Gramm Trailer Corp., Old National Bank Bldg., Delphos, Ohio.
Halsey Machine & Mfg Co., 131 Arrowhead Ave., San Bernardino, Calif. (Vegetable.)
Hanson Clutch & Machinery Co., Wall & Miami Sts., Tiffin 15, Ohio. (Machinery.)
Highway Trailer Co., 421 E. Fulton St., Edgerton, Wis.
Hobbs Mfg. Co., 609 N. Main St., Fort Worth 1, Tex.
Humes Truck & Trailer Mfg. Co., 907 Franklin Ave., Steubenville, Ohio.
Hyde Corp., 401 N. Main St., Fort Worth 1, Tex.
Independent Iron Workers, Eighth & Pine Sts., Oakland 7, Calif.
Jahn Co., C. R., Savanna, Ill. (Low-bed, tilt and pole.)
Kentucky Mfg. Co., Third & K Sts., Louisville 8, Ky.
Keystone Trailer & Equipment Co., 1501 Guinotte Ave., Kansas City 1, Mo.
Kingham Trailer Co., 15th & Hill Sts., Louisville, Ky. "Kingham-Universal."
Kolbeck Auto Works, 12th & J Sts., San Diego 2, Calif. (Semi.)
Kramer Wagon Co., Oil City, Pa. (Utility.)
La Crosse Trailer Corp., 418 Gould St., La Crosse, Wis. (Also machinery.)
Langlois Bros., 717 S. San Pedro St., Los Angeles, Calif.
Liggett Supply & Equipment Co., Monongahela, Pa. "Wearever." (Utility.)
Linn Mfg. Co., Lake St., Morris, N. Y.
Love Wagon Co., Durant, Miss. (Two and four wheel farm.)
Lufkin Foundry and Machine Co., Lufkin, Tex. (Van, platform, float, pole, low boy, etc.)
McCabe-Powers Auto Body Co., 5900 N. Broadway, St. Louis 15, Mo. "Powers." (Hydraulic dump and public utility.)
McCulloch Motors Corp., 6101 W. Century Blv., Los Angeles 45, Calif. "Towpac." (One-wheel collapsible.)
McKay Mfg. Co., John A., Dunn, N. C. "McKay Sturdybilt."
Martin Machine Co., South & Tenney Sts., Kewanee, Ill. Heavy duty machinery; sole distributors, Caterpiller Tractor Co., 600 W. Washington St., Peoria 8, Ill.
Mastercraft Trailers, Inc., 310a Maple St., Rocky Hill, Conn. (Two-wheel utility.)
Meili-Blumberg Co., 1615 Wisconsin Ave., New Holstein, Wis. "M-B." (Two wheel, tractor and implement.)
Miami Specialties Co., 221 S. Plum St., Troy, Ohio.
Miller Trailers, Inc., 812 12th St., Bradenton, Fla.
Montgomery Body & Trailer Mfg. Co., Route 37 South, Salem, Ill. (Oil field.)
Monroe Mfg. Co., C. N., 2525 S. Dort Highway, Flint 7, Mich. (Tilting-platform.)
Nabors Co., W. C., Mansfield, La.
National Automatic Tool Co., S. Seventh & N Sts., Richmond, Ind. "Natco." (Two-wheel utility.)
Ohio Body Mfg. Co., New London, Ohio. "Cargo Chief." (Semi.)
Olson Mfg Co., Boise, Idaho.
Omaha Standard Body Corp., 2411 W. Broadway, Council Bluffs, Iowa. (Semi.)
Oren Fire Apparatus Co., 1201 W. Salem Ave., Roanoke, Va. (Fire pumping units.)
Page & Page Co., 0605 S. W. Curry St., Portland 1, Ore.
Perfection Steel Body Co., Perfection Bldg., Galion, Ohio. "Cobey." (Two-wheel utility.)
Pierce Trailer & Equipment Co., 1306 S. E. Ninth Ave., Portland 14, Ore. (Logging, lumber and semi.)
Rehberger & Son, Inc., Arthur, 316 Ferry St., Newark 5, N. J. "Tip-Top."
Reliance Trailer & Truck Co., 2765 16th St., San Francisco 3, Cal. (Also log and semi-trailers.)
Schult Corp., 1800 S. Main St., Elkhart, Ind.
Spencer Trailer Co., Augusta, Kan. "Spencer Trail-Lite." (Semi, pole and four-wheel.)
Stainless Steel Products Co., 1000 Berry Ave., St. Paul 4, Minn.
Steel Products Co., P. O. Box 1007, Savannah, Ga. "Great-Dane."
Strick Co., Whitaker Ave. at Godfrey, Philadelphia 24, Pa.
Superior Trailer Mfg. Corp., 1125 Georgia St., Indianapolis, Ind.
Thomas & Co., Peter, 1320 Main St., Seattle 22, Mass.
Timpte Bros., Inc., E. 40th Ave. & York St., Denver 5, Colo.
Trailco Mfg. & Sales Co., Mill St., Hummels Wharf, Pa. (Semi.)
Trailmobile Co., 31st & Robertson Aves., Cincinnati 9, Ohio. "Lapeer," "Trailmobile."
Transport Bodies & Equipment Co., 3939 N. W. St., Helens Rd., Portland 10, Ore. (Also logging.)
Truck Engineering Corp., 1285 W. 70th St., Cleveland 2, Ohio. "TEC." (Four-wheel, semi and pole.)
Tyler Equipment Co., P. O. Box 1674, Houston 1, Tex.
United Mfg. Co., 30 E. Interstate St., Bedford, Ohio. (Utility.) "Caravan."
Utility Trailer Mfg. Co., P. O. Box 3608, Terminal Annex, Los Angeles 54, Cal.
Veenema & Wiegers, Inc., 241 N. Tenth St., Paterson 2, N. J. (Chassis-less.)
Weber Trailer & Mfg. Co., 1104 E. Fifth St., Los Angeles 13, Cal. (Semi, four, six-wheel and machinery.)
Wentworth & Irwin, Inc., 128 N. E. Oregon St., Portland 14, Ore. (Also logging and lo-bed.)
Whithead & Kates Co., 58 Haltiner St., River Rouge, Mich. "W & K."
Wiedman Body & Trailerplane Co., 59 Felton St., North Tonawanda, N. Y. "Trailerplanes." (Business display.)
Williamsen Body & Equipment Co., 2048 Washington Blvd., Ogden, Utah. "Wabco."
Winter-Weiss Co., 2201 Blake St., Denver 2, Colo. (Low bed machinery and farm.)

Engineered for RESULTS

Burd offers TWO types of Combination Sets to correct wear and tear in engine cylinders.

Car owners demand oil control in a rering job, even where cylinder walls are well worn. To meet such demands, install a Burd "Super Hi-Speed" Combination Set. The oil ring consists of: an extremely flexible cast iron ring and ventilated expander that assures smooth, uniform contact . . . and, two steel segments, installed *below* the cast ring, that give extra wiping action necessary for proper oil control.

You can assure customers oil control in rebore jobs by installing a Burd "Hi-Speed" Combination Set. The oil ring is a wide channel, Graf-Flox treated, cast iron ring and a precision-made, well ventilated, steel expander . . . its controlled flexibility exerts just the right amount of pressure to insure uniform contact. This Combination Set is exceedingly popular among engine rebuilders everywhere.

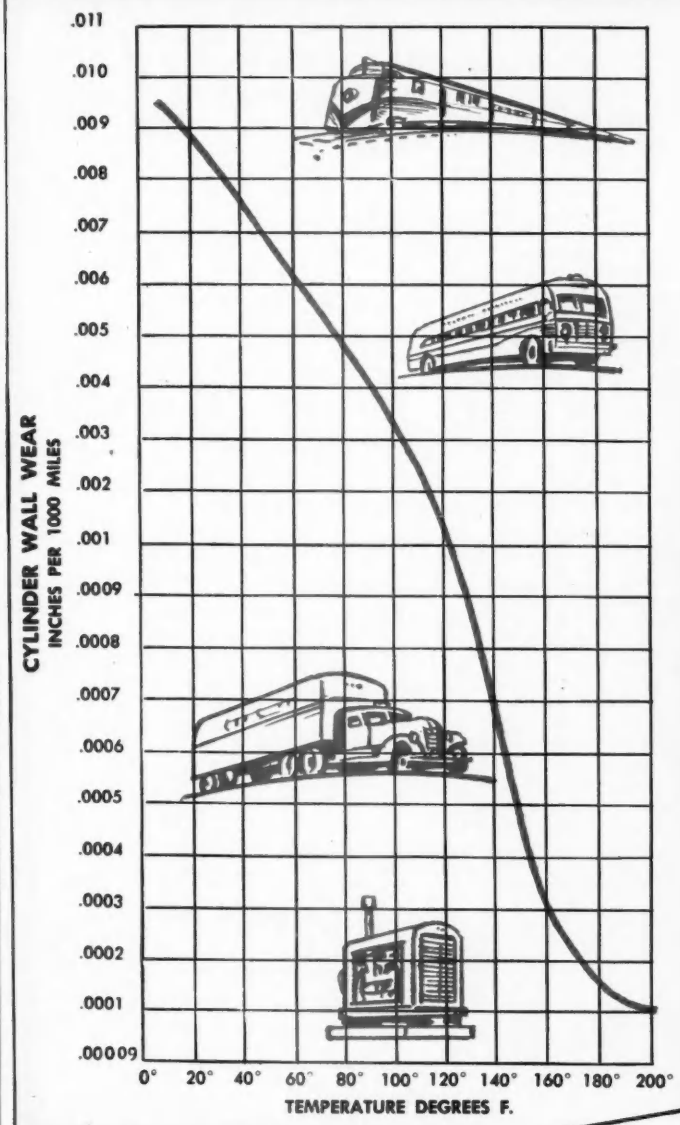
Burd Piston Rings are *Engineered for Results* and are available in Combination Sets for all cars, trucks, buses, tractors, industrial and marine engines. See your Burd jobber today!

BURD PISTON RING CO. ROCKFORD, ILL.

BURD AUTOMOTIVE PRODUCTS

184v-50

The HIGHER THE TEMPERATURE....
the LESS WEAR on the Cylinder Wall!

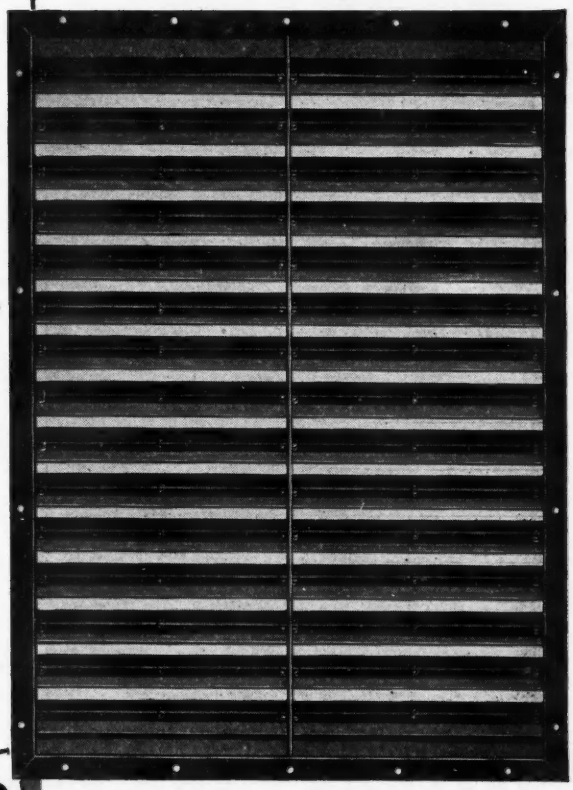


STUDY THIS SAE CHART

As is commonly known, the higher the temperature, the less amount of wear on the cylinder wall. Uniform high heat is also beneficial to an engine otherwise, adding power, economy and longer life, and preventing sludge!

KYSOR SHUTTERS

Control Temperature!



8%-12% MORE FUEL SAVING

Less Oil Consumption

Fewer Breakdowns

Kysor Shutters are TEMPERATURE CONTROLLED—maintaining the proper temperature at all times by means of automatic air or vacuum controls. They afford positive protection within 8 or 10 degrees! Install a Kysor shutter on that new or old engine, or specify it from your manufacturer. *It will soon pay for itself in recognizable greater efficiency.*

Write for bulletin!

"Built to Last"

KYSOR HEATER COMPANY Cadillac, Michigan

CANADIAN REPRESENTATIVES... RAILWAY & POWER ENGINEERING CORP.

NEW GLASGOW · MONTREAL · NORANDA · NORTH BAY · TORONTO · HAMILTON · WINDSOR · WINNIPEG · EDMONTON · VANCOUVER

2310-1

TRANSMISSION STANDS, See Stands, Engine and Transmission Repair

TRANMISSION JACKS, See Jacks, Transmission

TRANSMISSIONS

Automotive Gear Works, Inc., Eighth & S. O Sts., Richmond, Ind. "Double Diamond."
Clark Equipment Co., Buchanan, Mich.
Cotta Transmission Co., 2340 11th St., Rockford, Ill.
Detroit Gear Div., Borg-Warner Corp., 12345 Kercheval Ave., Detroit 14, Mich.
Detroit Transmission Div., General Motors Corp., 5140 Riopelle St., Detroit 11, Mich. "HydraMatic."
Four Wheel Drive Auto Co., E. 12th St., Clintonville, Wis. "FWD."
Fuller Mfg. Co., Transmission Div., Prouty St., Kalamazoo 13F, Mich. (Truck.)
Spicer Mfg. Div. of Dana Corp., 4100 Bennett Rd., Toledo 1, Ohio. "Spicer Brown-Lipe" (Bus and truck.)
Warner Gear Div., Borg-Warner Corp., 1106 E. Seymour St., Muncie, Ind. (Also automatic.)

TRANSMISSIONS, Auxiliary

Fuller Mfg. Co., Transmission Div., Prouty St., Kalamazoo 13F, Mich.
Spicer Mfg. Div. of Dana Corp., 4100 Bennett Rd., Toledo 1, Ohio.
Truckstell Mfg. Co., 2016 Union Commerce Bldg., Cleveland 14, Ohio. (Overdrive, for Chevrolet cars.)
Warford Corp., 44 Whitehall St., New York, N. Y. (For Ford and Chevrolet trucks.)
Warner Gear Div., Borg-Warner Corp., 1106 E. Seymour St., Muncie, Ind. (Overdrive unit.)
Watson Co., H. S., 1145 Harrison St., San Francisco 3, Cal. "Watson-Brown-Lipe."

TRUCKS, Diesel

American-Coleman Co., Omaha, Neb.
Autocar Co., Lancaster Ave., Ardmore, Pa.
Available Truck Co., 2501 Elston Ave., Chicago, Ill.
Condor Motors, Inc., 221 N. La Salle St., Chicago, Ill.
Corbitt Co., Henderson, N. C.
Dart Truck Co., 27th & Oak Sts., Kansas City, Mo.
Diamond T Motor Car Co., 4401 W. 26th St., Chicago 23, Ill.
Eisenhauer Mfg. Co., 329 Center St., Van Vert, Ohio. (Twin Engine Trucks.)
Euclid Road Machinery Co., 1361 Chardon Rd., Cleveland 17, Ohio. (Dump, for off-the-highway service.)
Federal Motor Truck Co., 5780 Federal Ave., Detroit 9, Mich.
Four Wheel Drive Auto Co., E. 12th St., Clintonville, Wis. "FWD."
GMC Truck & Coach Div., General Motors Corp., 660 South Blvd., E., Pontiac 11, Mich.
Hendrickson Motor Truck Co., 8001 W. 47th St., Lyons, Ill.
International Harvester Co., Harvester Bldg., 180 N. Michigan Ave., Chicago 1, Ill.
Kenworth Motor Truck Corp., 8801 E. Marginal Way, Seattle, Wash.
Mack Mfg. Corp., Empire State Bldg., 350 Fifth Ave., New York 1, N. Y.
Marmon-Herrington Co., 1511 W. Washington, Indianapolis 7, Ind.
Oshkosh Motor Truck, Inc., 2302 Oregon St., Oshkosh, Wis.
Parsons Co., Newton, Iowa. "Dumptor." (For off-the-highway service.)
Peterbilt Motors Co., 107th Ave. & MacArthur Blvd., Oakland 3, Calif.
Reo Motors, Inc., 1331 S. Washington Ave., Lansing, Mich.
Sterling Motor Truck Co., 2021 S. 54th St., Milwaukee 1, Wis.
Studebaker Corp., 635 S. Main St., South Bend 27, Ind.
Walter Motor Truck Co., 1001 Irving Ave., Ridgewood, L. I., N. Y.
Ward-LaFrance Truck Corp., Grand Central Ave. & 11th St., Elmira Heights, N. Y.
White Motor Co., 842 E. 79th St., Cleveland 1, Ohio.

TRUCKS, Fire Apparatus

American-LaFrance-Foamite Corp., 100 E. LaFrance St., Elmira, N. Y.
Biederman Motors Corp., 2131 Spring Grove Ave., Cincinnati 14, Ohio.
Four Wheel Drive Auto Co., E. 12th St., Clintonville, Wis. "FWD."
Hahn Motors, Inc., 400 S. Third St., Hamburg, Pa.
McCann Corp., P. O. Box 1946, Portland, Me.
Mack Mfg. Corp., Empire State Bldg., 350 Fifth Ave., New York 1, N. Y.
Maxim Motor Co., 170 Wareham St., Middleboro, Mass.
Oren Roanoke Corp., 1201 W. Salem Ave., Roanoke, Va.
Pirsch & Sons Co., Peter, 1308 35th St., Kenosha, Wis.
Walter Motor Truck Co., 1001 Irving Ave., Ridgewood, L. I., N. Y.
Ward-LaFrance Truck Corp., Grand Central Ave. & 11th St., Elmira Heights, N. Y.

TRUCKS (Gasoline)

American-Coleman Co., Omaha, Neb.
American Motors, Inc., 250 Park Ave., New York 17, N. Y. "Delcar."
Autocar Co., Lancaster Ave., Ardmore, Pa.
Available Truck Co., 2501 Elston Ave., Chicago, Ill.
Biederman Motors Corp., 2131 Spring Grove Ave., Cincinnati 14, Ohio.
Brockway Motor Co., 106 Central Ave., Cortland, N. Y.
Brown Equipment & Mfg. Co., 1775 Broadway, New York 19, N. Y.
Chevrolet Motor Div. of General Motors Corp., General Motors Bldg., Detroit 2, Mich.
Condor Motors, Inc., 221 N. La Salle St., Chicago, Ill.
Corbitt Co., Henderson, N. C.
Crosley Motors, Inc., 2530 Spring Grove Ave., Cincinnati 14, Ohio.
Dart Truck Co., 27th & Oak Sts., Kansas City, Mo.
Diamond T. Motor Car Co., 4401 W. 26th St., Chicago 23, Ill.
Diveo Corp., 22000 Hoover Rd., Detroit 5, Mich. (Frequent stop.)
Dodge Div., Chrysler Corp., 7900 Joseph Campau Ave., Detroit 31, Mich.

DESIGNED FOR LONG LIFE

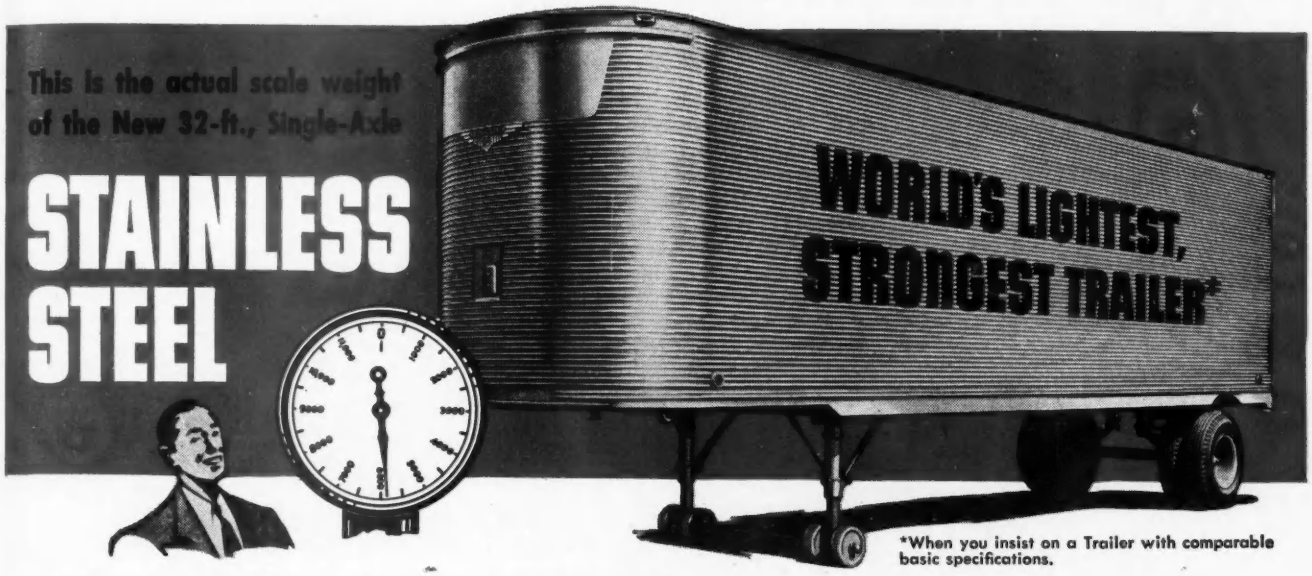
Gunites are designed for durability — the type of metal used, structure of the drum, method of casting, and standards of machining are all selected to produce long-lasting drums. You get better performance from Gunites—longer lining life, fewer adjustments, more efficient braking, lower operating costs, and elimination of breakage. Try a set on your toughest run and see how well they stand up. Buy GUNITES — *for better braking!*

MADE BY
GUNITE FOUNDRIES
ROCKFORD, ILLINOIS

GUNITE BRAKE DRUMS . . . FOR TRUCKS, TRACTORS, TRAILERS and BUSES

3820.50

5985 LBS.-FULLY EQUIPPED!



*When you insist on a Trailer with comparable basic specifications.

Scale Weights Show New Fruehauf Stainless Steel

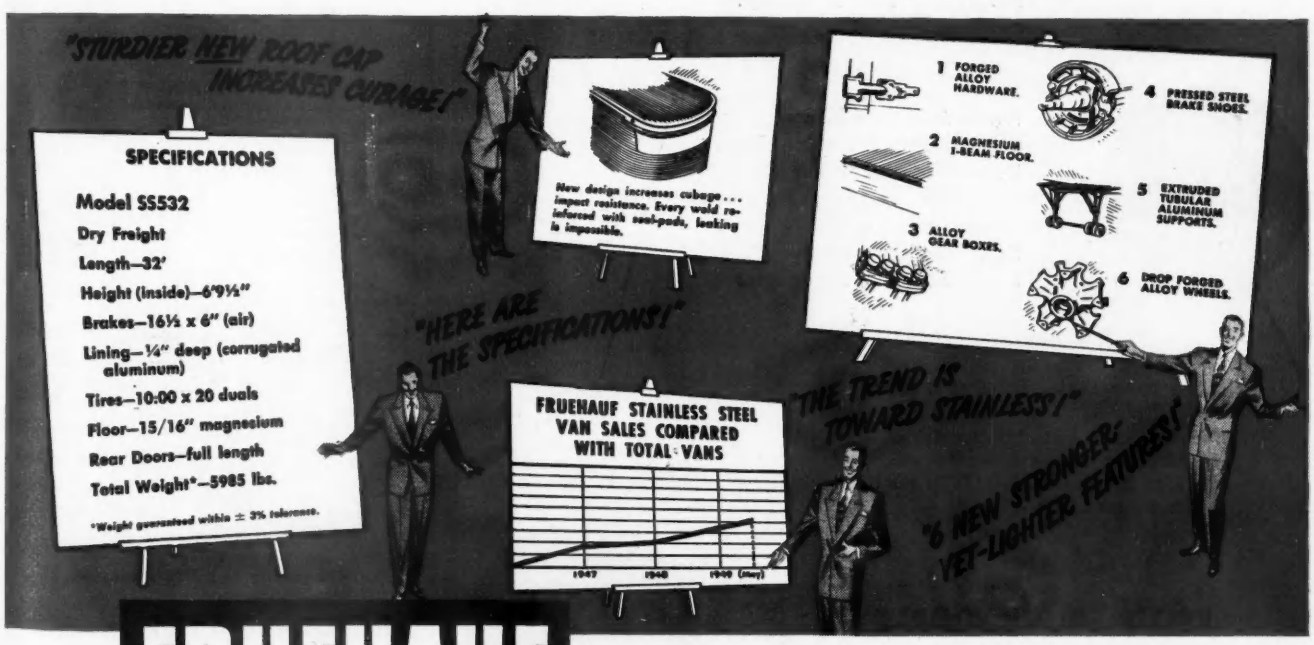
UP TO 4000 LBS. LIGHTER THAN CONVENTIONAL TRAILERS!

5985 lbs. for a 32-ft. van! 7380 lbs. for a 32-ft. reefer! Yet still stronger! If you're now operating certain types of conventional Trailers, scale weights of the new Fruehauf Stainless Steel Vans can mean *safe* payload increases up to 4000 lbs. The new-type, lighter-yet-stronger Stainless Steel Trailers are Fruehauf's answer to the industry's need today for still greater payloads without any sacrifice of strength or durability.

Only Fruehauf builds Trailers of Stainless Steel. Up to three times the tensile strength of aluminum, it's the modern light weight metal with *the lifetime guarantee.* For no Stainless Steel has ever been reported worn out. Non-corrosive—it can never rust out. Its handsome, lustrous beauty lasts for life—never needs painting. And most important, in the event of an accident, damage is highly localized.

When you consider the purchase of a new Trailer, weigh carefully the advantages of Stainless Steel. Your next Trailer will surely be the *world's lightest, strongest, lowest-cost Trailer.*

FRUEHAUF TRAILER COMPANY, DETROIT 32, LOS ANGELES 11. IN CANADA: WESTON, ONT.



ONLY **FRUEHAUF** BUILDS STAINLESS STEEL TRAILERS!

3814-1

Kester Solder 1st choice of mechanics everywhere...

Standard for the Trade since 1899

Kester products have been in constant demand by mechanics for over half a century.

LABORATORY CONTROLLED

POSITIVE FLUX UNIFORMITY

Kester Acid-Core Solder
Kester Plastic Rosin-Core Solder
Kester Radiator Solder (Flux-Core)
Kester Solid Wire and Bar Solder
Kester Soldering Salts
Kester Soldering Paste
Kester Soldering Accessories

Insist upon Kester from your jobber!

The tin-lead content of Kester Solder was established many years ago by you, the trade, as the alloy that would give the best results. Do not accept substitutes.

1899 50th Anniversary 1949

KESTER SOLDER COMPANY
4201 Wrightwood Avenue, Chicago 39, Illinois
Factories Also at
Newark, New Jersey • Brantford, Canada

KESTER SOLDER

TRUCKS, Gasoline—cont.

Duplex Truck Co., Hazel St., Lansing 4, Mich.
Esco Motor Co., c/o Exhibitor's Service Co., W. General Robinson St., N. S., Pittsburgh, Pa.
Federal Motor Truck Co., 5780 Federal Ave., Detroit 9, Mich.
Ford Motor Co., 3000 Schaefer Rd., Dearborn, Mich.
Four Wheel Drive Auto Co., E. 12th St., Clintonville, Wis. "FWD."
GMC Truck & Coach Div., General Motors Corp., 660 South Blvd., E., Pontiac 11, Mich.
Hahn Motors, Inc., 400 S. Third St., Hamburg, Pa.
Hendrickson Motor Truck Co., 8001 W. 47th St., Lyons, Ill.
International Harvester Co., Harvester Bldg., 180 N. Michigan Ave., Chicago 1, Ill.
Kenworth Motor Truck Corp., 8801 E. Marginal Way, Seattle, Wash.
Linn Coach & Truck Div., Great American Industries, Inc., 443 Chestnut St., Oneonta, N. Y. (Frequent stop.)
Linn Mfg. Co., Lake St., Morris, N. Y.
MacDonald Truck & Mfg. Div., Peterbilt Motors, Inc., 107th St. & MacArthur Blvd., Oakland, Calif. (Low body.)
Mack Mfg. Corp., Empire State Bldg., 350 Fifth Ave., New York 1, N. Y.
Marmon-Herrington Co., W. Washington at Harding St., Indianapolis 7, Ind.
Milford Crane & Machine Co., 841 63rd St., Brooklyn 20, N. Y. (4-axle crane truck and special purpose.)
Oshkosh Motor Truck, Inc., 2302 Oregon St., Oshkosh, Wis.
Parsons Co., Newton, Iowa. "Dumptor." (For off-the-highway service.)
Peterbilt Motors Co., 107th Ave. & MacArthur Blvd., Oakland 3, Calif.
Reo Motors, Inc., 1331 S. Washington Ave., Lansing, Mich.
Spangler Engrg. & Sales Co., D. H., 426 S. Third St., Hamburg, Pa.
Sterling Motor Truck Co., 2021 S. 54th St., Milwaukee 1, Wis.
Studebaker Corp., 635 S. Main St., South Bend 27, Ind.
Truckstell Mfg. Co., 2016 Union Commerce Bldg., Cleveland 14, Ohio. (Conversions.)
Walter Motor Truck Co., 1001 Irving Ave., Ridgewood, L. I., N. Y.
Ward-LaFrance Truck Corp., Grand Central Ave. & 11th St., Elmira Heights, N. Y.
White Motor Co., 842 E. 79th St., Cleveland 1, Ohio.
Willys-Overland Motors, Inc., Wolcott Blvd., Toledo 1, Ohio. (Also jeeps.)

TRUCKS, Lift (Electrically Operated)

Atlas Car & Mfg. Co., 1130 Ivanhoe Rd., Cleveland, Ohio.
Automatic Transportation Co., Div. Yale & Towne Mfg. Co., 101 W. 87th St., Chicago, Ill. "Skylift."
Baker Industrial Truck Div. of Baker-Raulang Co., 1211 80th St., Cleveland 2, Ohio. (Electric or gas-electric.)
Clark Equipment Co., Industrial Truck Div., Battle Creek 85, Mich. "Clark Elec-Carloader," "Clark Elec-Clipper," "Clark Elec-Truckloader," "Clark Elec-Utilitruc."
Crescent Truck Co., 1035 Willow St., Lebanon, Pa.
Easton Car & Construction Co., Easton, Pa.
Elwell-Parker Electric Co., 4215 St. Clair Ave., Cleveland 14, Ohio. "Hi-Lo." (Also gas-electric.)
Howell Industrial Truck Co., 8899 Maywood Ave., Cleveland 2, Ohio.
Lewis-Shepard Products, Inc., 155 Walnut St., Watertown Station, Boston, Mass.
Market Forge Co., 25 Garvey St., Everett, Mass. "Load-Mobile."
Mercury Mfg. Co., 4044 S. Halstead St., Chicago 9, Ill.
Mobilift Corp., 835 S.E. Main St., Portland 14, Ore.
Revolvator Co., U. S. Route 1 at 86th St., North Bergen, N. J.
Service Caster & Truck Corp., Albion, Mich.
Towmotor Corp., 1226 E. 152nd St., Cleveland 10, Ohio.
Wright-Hubbard Industrial Electric Truck Co., Pleasant St., Phelps, N. Y.
Yale & Towne Mfg. Co., 4530 Tacony St., Philadelphia 24, Pa.

TRUCKS, Lift (Gasoline Powered)

Baker Industrial Truck Div. of Baker-Raulang Co., 1211 W. 80th St., Cleveland 2, Ohio. (Also gas-electric.)
Clark Equipment Co., Industrial Truck Div., Battle Creek 85, Mich. "Clark Carloader," "Clark Clipper," "Clark Truckloader," "Clark Utilitruc," "Clark Yardlift."

3323-66

63 Powerful HERCULES ENGINES

There are 63 powerful engines in the Hercules Line—each one of them engineered and sturdily built for high speed, heavy duty, long life service. Why not capitalize on Hercules' reputation for dependable performance—all-around operating economy—low maintenance. Call in a Hercules Engineer to go over your power requirements. He will recommend the most practical engine for your needs.

HERCULES ENGINES 3 TO 500 H. P.

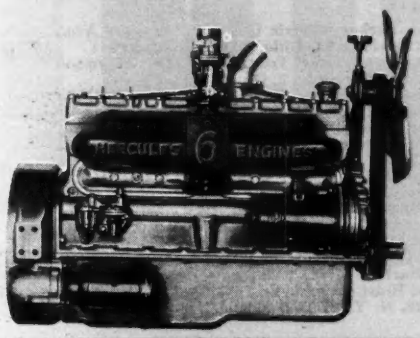
GAS AND GASOLINE ENGINES

Model	Bore and Stroke	Cu. In. Displ.
Two Cylinder		
BXB	2⅞" x 3"	39
NXA	3" x 4"	56.5
NXB	3¼" x 4"	66.3
Four Cylinder		
ZXA	2½" x 3"	59
ZXB	2⅝" x 3"	65
IXA	3" x 4"	113
IXB	3¼" x 4"	133
JX4E	3½" x 4¼"	164
JX4C	3¾" x 4¼"	188
JX4D	4" x 4¼"	214
Six Cylinder		
QXA	3⅛" x 4⅛"	190
QXB	3¼" x 4⅛"	205
QXC	3⅜" x 4⅛"	221
QXLD	3 7/16" x 4¼"	236.7
JXE	3½" x 4¼"	245
JXB	3⅝" x 4¼"	263
JXC	3¾" x 4¼"	282
JXD	4" x 4¼"	320
JXLD	4" x 4½"	339
WXC-3	4¼" x 4½"	383
WXLC	4" x 4¾"	358
WXLC-3	4¼" x 4¾"	404
TDXB	4⅜" x 5¼"	474
RXB	4½" x 5¼"	501
RXC	4⅝" x 5¼"	529
RXLC	4⅝" x 5¼"	529
RXLD	4¾" x 5¼"	558
RXLDH	4¾" x 5¼"	558
HXB	5" x 6"	707
HXC	5¼" x 6"	779
HXD	5½" x 6"	855
HXE	5¾" x 6"	935
*HXE	5¾" x 6"	935

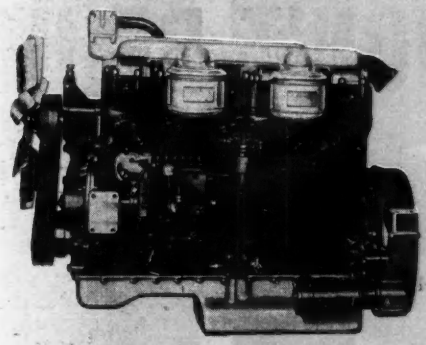
*Dual Carburetion

DIESEL ENGINES

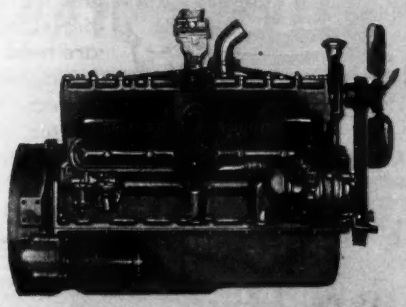
Model	Bore and Stroke Inches	Piston Displ. Cu. In.
Two Cylinder		
DIXC	4" x 4½"	113.1
DIXD	4¼" x 4½"	127.5
Four Cylinder		
DIX4B	3¼" x 4"	133
DIX4D	3⅝" x 4"	166
DOOB	3¾" x 4½"	198.8
DOOC	4" x 4½"	226.2
DOOD	4¼" x 4½"	255
Six Cylinder		
DIX6D	3⅝" x 4"	249
DJXB	3½" x 4½"	260
DJXC	3¾" x 4½"	298
DJXH	3¾" x 4½"	298
DJXHF	3¾" x 4½"	298
DWXC	4" x 4¾"	358
DWXD	4¼" x 4¾"	404
DWXLD	4¼" x 5"	426
DWXLDF	4¼" x 5"	426
DRXB	4⅜" x 5¼"	474
DRXC	4⅝" x 5¼"	529
DFXB	5" x 6"	707
DFXC	5¼" x 6"	779
DFXD	5½" x 6"	855
DFXE	5⅝" x 6"	895
DFXH	5¾" x 6"	935
DFXHF	5¾" x 6"	935
Eight Cylinder		
DNX V-8B	5¾" x 6"	1247
DNX V-8C	6" x 6"	1348
DNX V-8D	6¼" x 6"	1468
DNX V-8DS	6¼" x 6"	1468



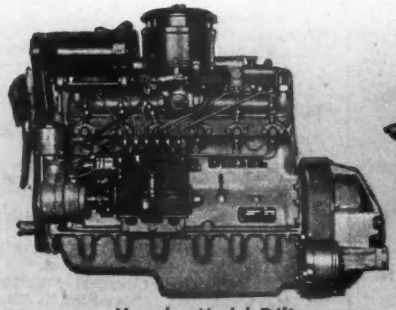
Hercules Model JXLD
6 cylinder Gasoline Engine



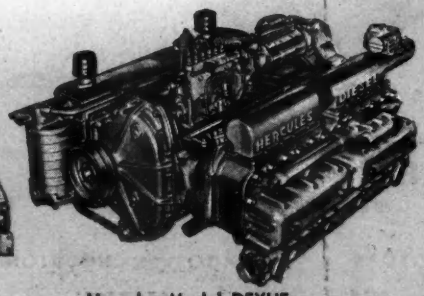
Hercules Model DFXE
6 cylinder Diesel Engine



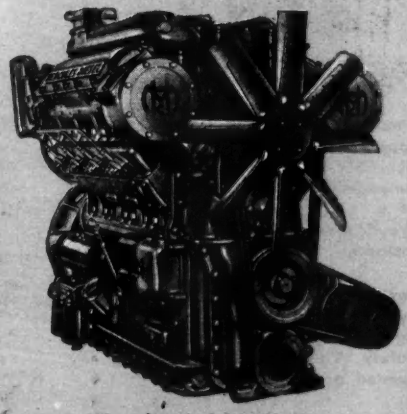
Hercules Model JXE-3
6 cylinder Gasoline Engine



Hercules Model DJX
6 cylinder Diesel Engine



Hercules Model DFXHF
6 cylinder Diesel Engine
Horizontal Type



Hercules Model DNX-V8
8 cylinder Diesel Engine

HERCULES MOTORS CORPORATION • CANTON, OHIO, U. S. A.

1810-1

TRUCKS, Lift (Gasoline Powered)—cont.

Elwell-Parker Electric Co., 4215 St. Clair Ave., Cleveland 14, Ohio. (Also gas-electric.)
Howell Industrial Truck Co., 8899 Maywood Ave., Cleveland 2, Ohio.
Hyster Co., 2902 N. E. Clackamas St., Portland 8, Ore.
Lewis-Shepard Products, Inc., 155 Walnut St., Watertown Station, Boston, Mass. "Standrive."
MacDonald Truck & Mfg. Div., Peterbilt Motors, Inc., 106th St. & MacArthur Blvd., Oakland, Calif.
Mercury Mfg. Co., 4044 S. Halsted St., Chicago 9, Ill.
Ross Carrier Co., Second & Miller Sts., Benton Harbor, Mich. (Also gas-electric straddle.)
Silent Hoist & Crane Co., 841 63rd St., Brooklyn 20, N. Y. "Lift-O-Krane."
Towmotor Corp., 1226 E. 152nd St., Cleveland 10, Ohio.
Yale & Towne Mfg. Co., 4530 Tacony St., Philadelphia 24, Pa.

TRUCK LOADERS (ELEVATING TAILGATE), See Loaders, Truck (Elevating Tailgate)

TRUCK TANKS, See Tanks, Trailer and Truck Body

TUBES, Inner

Armstrong Rubber Co., 475 Elm St., West Haven 16, Conn.
Carlisle Tire & Rubber Div., Carlisle Corp., College & C St., Carlisle, Pa.
Cooper Tire & Rubber Co., Lima & Western Aves., Findlay, Ohio.
Corduroy Rubber Co., Fuller Ave. & G. T. Tracks, Grand Rapids 1, Mich.
Dayton Rubber Co., 2342 W. Riverview Ave., Dayton 1, Ohio. "Dayton," "Thorobred."
Dunlop Tire & Rubber Corp., Sheridan Drive, Buffalo 7, N. Y.
Durkee-Atwood Co., 215 Seventh St., N. E., Minneapolis 13, Minn.
Firestone Tire & Rubber Co., S. Main St., Akron, Ohio. "Life Protector."
Fisk Tire Co., 1230 Ave. of the Americas, New York 20, N. Y.
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo. "Gates Vulco."
General Tire & Rubber Co., Englewood & Holmes Ave., Akron, Ohio.
Goodrich Co., B. F., 500 S. Main St., Akron, Ohio.
Goodyear Tire & Rubber Co., E. Market St., Akron 16, Ohio.
Kelly-Springfield Tire Co., Cumberland, Md.
Lake Shore Tire & Rubber Co., Des Moines, Iowa.
Lee Rubber & Tire Corp., Conshohocken, Pa.
Mansfield Tire & Rubber Co., Newman St., Mansfield, Ohio. "Century," "Mansfield," "Richland," "United."
Mohawk Rubber Co., 1235 Second St., Akron 5, Ohio.
Norwalk Tire & Rubber Co., Belden Hill Ave., Norwalk, Conn.
Polson Rubber Co., Garrettsville, Ohio.
Robbins Tire & Rubber Co., Tuscumbia, Ala.
Seiberling Rubber Co., Akron 9, Ohio.
United States Rubber Co., Rockefeller Center, 1230 Avenue of the Americas, New York 20, N. Y.
Waber Co., 1824 W. 74th St., Chicago 36, Il

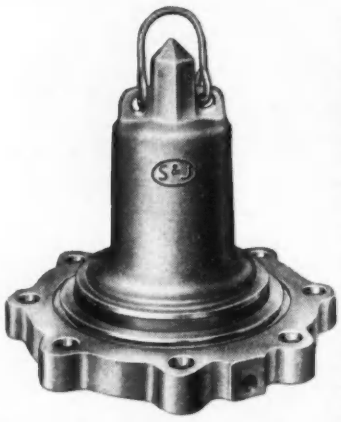
TUBING, Brass and Copper

American Brass Co., 414 Meadow St., Waterbury, Conn. "Anaconda."
Attwood Brass Works, 745 Front St., Grand Rapids, Mich.
Central Steel & Wire Co., 3000 W. 51st St., Chicago 80, Ill.
Chase Brass and Copper Co., 236 Grand St., Waterbury 91, Conn.
Dorman Products, Inc., 1004 Sycamore St., Cincinnati 2, Ohio.
Everhot Products Co., 2001 W. Carroll Ave., Chicago 12, Ill. "Everflex." (Copper.)
Exello Accessories Mfrs., Inc., 81 Madison Ave., Hempstead, N. Y.
Imperial Brass Mfg. Co., 1234 W. Harrison St., Chicago 7, Ill.
Kensico Tube Co., Hubbell's Cross Rd., Mt. Kisco, N. Y. (Copper.)
Linderne Tube Co., 1500 E. 219th St., Cleveland 17, Ohio.
Mueller Brass Co., 1925 Lapeer Ave., Huron, Mich. "Streamline."
National Copper & Smelting Co., 1862 E St., Cleveland 6, Ohio.
National Formetal Co., 6536 Metta Ave., land 14, Ohio. (Furnished to leng sired.)
Penn Brass & Copper Co., Powell Ave., Pa. "Superior."
Planet Metal Products Corp., 964 Dea Brooklyn 16, N. Y.
Preferred Electric & Wire Co., Bush Term Bldg. No. 8, Brooklyn 32, N. Y.
Revere Copper and Brass Inc., 230 Park Ave New York 17, N. Y.
Scovill Mfg. Co., 99 Mill St., Waterbury 91 Conn. (Brass.)
United Wire & Supply Corp., 1497 Elmwood Ave., Providence 7, R. I.
Wells & Co., A. H., 563 Watertown Ave., Waterbury, Conn.
Wolverine Tube Div., Calumet & Hecla Consolidated Copper Corp., 1411 Central Ave., Detroit 9, Mich.

TUBING, Flexible Metallic

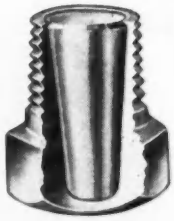
Almond Mfg. Co., T. R., 100 Maple Ave., Ashburnham, Mass.
American Metal Hose Branch of The American Brass Co., 698 S. Main St., Waterbury, Conn.
Atlantic Metal Hose Co., 107 W. 64th St., New York, N. Y.
Breeze Corporation, Inc., 24 S. Sixth St., Newark 7, N. J. "Breeze FleXmet."
Chicago Metal Hose Corp., 1315 S. Third Ave., Maywood, Ill. "Rex-Flex," "Rex-Tube," "Rex-Weld."
Eastern Tube & Tool Co., 594 Johnson Ave., Brooklyn, N. Y. "Ettco."
Eclipse-Pioneer Div., Bendix Aviation Corp., Teterboro, N. J.
Forsyth Metal Goods Co., Elm St., East Aurora, N. Y.
International Metal Hose Co., Div. of Gabriel Co., 1523 E. 45th St., Cleveland 3, Ohio. "Interlox."

DON'T BE HALF SAFE!

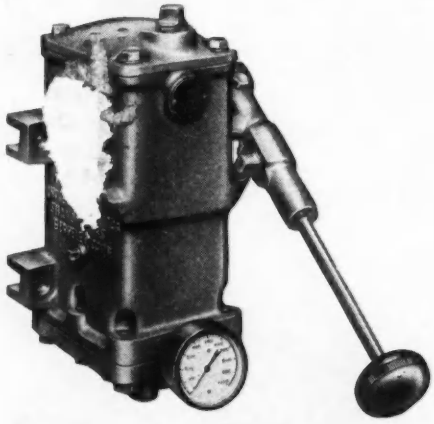


S. & J. Hydraulic Safety Valves can be opened only by hydraulic pressure, and are normally held closed under spring tension.

It never pays to compromise with SAFETY. If safety is a prime consideration, it is always wise to go all the way. Consider the Internal Safety Valves which are installed inside the tank compartments of petroleum delivery trucks. Those operated with hydraulic pressure embody the MAXIMUM IN SAFETY because hydraulic pressure is POSITIVE. You either have it, or you have lost it. If an accident ruptures a hydraulic line, or the melting of a fusible plug releases the pressure, the hydraulic safety valves which are held closed under spring tension, cannot be opened until hydraulic pressure is restored. Valves operated by cables which stretch, or rods which bend, are only **half safe**, because an accident to the operating mechanism often opens a normally closed valve. Think that over!



Small fusible plugs, installed in the copper tubing hydraulic lines, melts at 165°F. If a fire occurs during unloading operations, the melting of a fusible plug releases the hydraulic pressure and the valves close instantly.



Several strokes of the handle of the hydraulic operator shown at the right are required to open S. & J. Safety Valves. They cannot be opened accidentally.

SHAND & JURS CO.
BERKELEY, CALIFORNIA

NEW YORK CHICAGO HOUSTON
LOS ANGELES SEATTLE

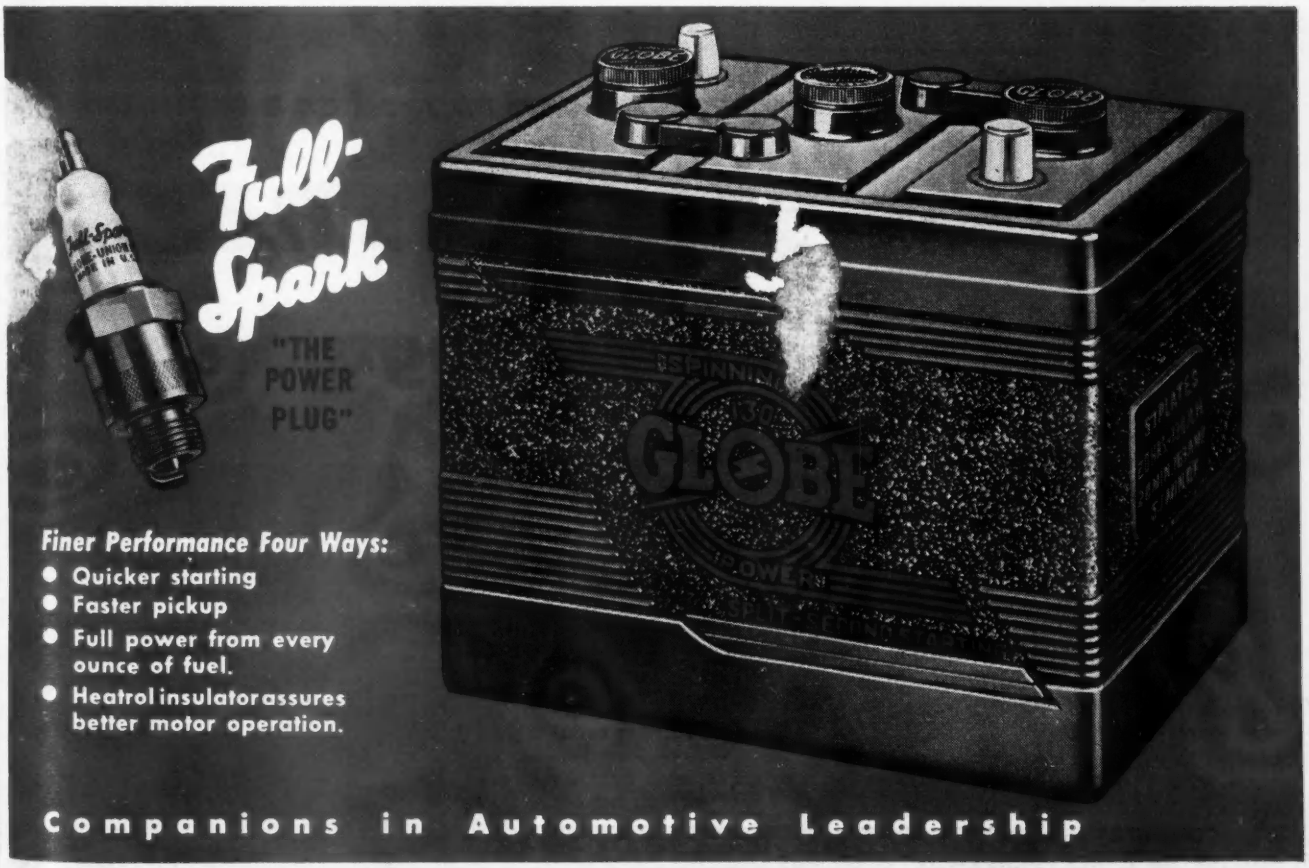
SHAND & JURS

1840-50
1-0181

SPINNING POWER

GLOBE-UNION

Engineered for Replacement Service



GLOBE-UNION INC., MILWAUKEE 1, WISCONSIN

1512 .92 1621

TUBING, Flexible Metallic—cont.

Mulconroy Co., 54th & Jefferson Sts., Philadelphia 31, Pa.
National Electric Products Corp., 13th Floor, Chamber of Commerce Bldg., Pittsburgh 19, Pa. "Auto-Steelflex."
Pennsylvania Flexible Metallic Tubing Co., 72nd St. & Powers Lane, Philadelphia 42, Pa. "Penflexweld."
Ryder Mfg. Co., 220 N. Ada St., Chicago 7, Ill.
Titeflex, Inc., 672 Frelinghuysen Ave., Newark 5, N. J.

TUBING, Loom

Anchor Webbing Co., 1005 Main St., Pawtucket, R. I.
Asbestos Textile Co., 165 W. Wacker Drive, Chicago 1, Ill. (Asbestos.)
Eastern Tube & Tool Co., 594 Johnson Ave., Brooklyn, N. Y. "Ettco."
Essex Wire Corp., 1601 Wall St., Fort Wayne, Ind. "SX."
Packard Electric Div., General Motors Corp., Warren, Ohio.

TUBING, Oil and Gasoline Line

AC Spark Plug Div., General Motors Corp., 1300 N. Dort Highway, Flint 2, Mich. (Flexible.)
Alloy Mfg. Co., 3207 S. Shields Ave., Chicago 16, Ill. "Quality Built." (Copper, with fittings, for Ford and Chevrolet cars.)
American Metal Hose, Branch of The American Brass Co., 698 S. Main St., Waterbury, Conn. (Flexible, with fittings.)
Anchor Coupling Co., 342 N. Fourth St., Libertyville, Ill. (Flexible.)
Andrew Parts Mfg. Co., 49 Amsterdam Ave., New York 23, N. Y.
Atlantic Metal Hose Co., 107 W. 64th St., New York, N. Y. (Flexible.)
Bundy Tubing Co., 8109 Jefferson Ave., Detroit 13, Mich. (Solid.)
Chicago Metal Hose Corp., 1315 S. Third Ave., Maywood, Ill. "Rex-Tube," "Rexweld." (Flexible.)
Coronet Parts Mfg. Co., 951 Sheperd Ave., Brooklyn, N. Y. (Flexible.)
Dorman Products Inc., 1004 Sycamore St., Cincinnati 2, Ohio.

If you cannot find the product classification you seek, see "Specialized Products," on Page 254.

Edelmann & Co., E., 2232 Logan Blvd., Chicago 47, Ill. (Flexible.)
Evco Products Co., 160 W. 62nd St., New York 23, N. Y.
Everhot Products Co., 2001 W. Carroll Ave., Chicago 12, Ill. "Everflex." (Flexible.)
Exello Accessories Mfrs., Inc., 81 Madison Ave., Hempstead, N. Y.
Frost Co., 6523 14th Ave., Kenosha, Wis.
Imperial Brass Mfg. Co., 1234 W. Harrison St., Chicago 7, Ill. (Flexible.)
Motive Equipment Mfrs., Inc., 5253 W. Roosevelt Rd., Chicago 50, Ill. "Flex-Gas." (Flexible non-metallic, with fittings.)
National Copper & Smelting Co., 1862 E. 123rd St., Cleveland 6, Ohio.
National Ignition Mfg. Co., 521 W. 23rd St., New York, N. Y. (Flexible.)
Penn Brass & Copper Co., Powell Ave., Erie, Pa. "Superior." (Solid.)
Perfect Parts, Inc., 55 Amsterdam Ave., New York 23, N. Y. (Flexible.)
Planet Metal Products Corp., 964 Dean St., Brooklyn 16, N. Y.
Raybestos-Manhattan, Inc., Manhattan Rubber Div., 61 Willet St., Passaic, N. J. "Manhattan."
Resistoflex Corp., 39 Plansoen St., Belleville 9, N. J. (Flexible, with fittings.)
Steel and Tubes Div., Republic Steel Corp., 224 E. 131st St., Cleveland 8, Ohio.
Titeflex, Inc., 672 Frelinghuysen Ave., Newark 5, N. J. (Flexible.)
United Wire & Supply Co., 1497 Elmwood Ave., Providence 7, R. I.
Weatherhead Co., 300 E. 131st St., Cleveland 8, Ohio. (Flexible non-metallic.)
Winkenweder & Ladd, Inc., 1421 S. Michigan Ave., Chicago 5, Ill. "Certi-Flex." (Flexible.)
Wolverine Tube Div., Calumet & Hecla Consolidated Copper Corp., 1411 Central Ave., Detroit 9, Mich. (Solid.)

TUBING, Windshield Wiper

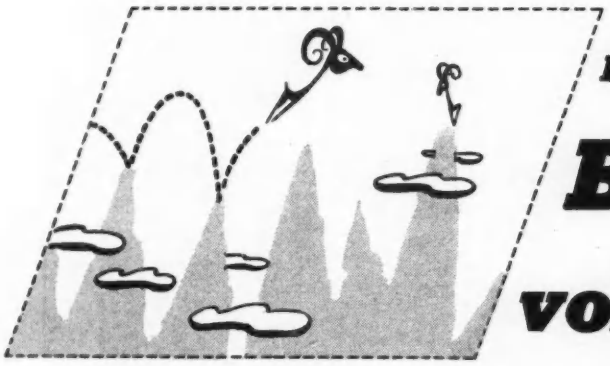
Acme Rubber Mfg. Co., E. State St., Trenton, N. J.
Anaconda Wire & Cable Co., 25 Broadway, New York 4, N. Y.
Buckeye Reliner Producing Co., 637 N. Jackson St., Lima, Ohio. "Universal."
Continental Rubber Works, 1902 Liberty St., Erie, Pa. "Vitalic."
Crown Products Co., P. O. Box 1046, Omaha, Neb.
Gates Rubber Co., 999 S. Broadway, Denver 17, Colo.
Goodrich Co., B. F., 500 S. Main St., Akron 18, Ohio.
Grey-Rock Div. of Raybestos-Manhattan, Inc., Manheim, Pa.
Quaker Rubber Corp., Tacony & Comly Sts., Philadelphia 24, Pa.
Raybestos-Manhattan, Inc., Manhattan Rubber Div., 61 Willet St., Passaic, N. J. "Manhattan."
Raybestos Div. of Raybestos-Manhattan, Inc., Stratford, Conn.
Rubbercraft Corp. of Cal., Ltd., 110 E. 17th St., Los Angeles, Calif.
Servwell Products Co., 6519 Euclid Ave., Cleveland 3, Ohio.
Sure-Rite Products Corp., 2731 N. Sixth St., Philadelphia 33, Pa.
Trico Products Corp., 817 Washington St., Buffalo 3, N. Y.
Victor Instrument Mfg. Co., 33 W. 60th St., New York 23, N. Y.

TUNE-UP EQUIPMENT, See Analyzers

TUNE-UP OIL, See Oils, Upper Cylinder

UNDERCOATINGS for Chassis and Body

Davison Chemical Corp., 20 Hopkins Place, Baltimore 3, Md. "Fendix."
Ditzler Color Div., Pittsburgh Plate Glass Co., 8000 W. Chicago Ave., Detroit 4, Mich. (Underbody.)
Ensign Products Co., 3528 E. 76th St., Cleveland 5, Ohio. (Underbody.)
Flexrock Co., Packing Div., 23rd & Manning Sts., Philadelphia, Pa.
Flintkote Co., 30 Rockefeller Plaza, New York 20, N. Y.
Hollingshead Corp., R. M., 840 Cooper St., Camden, N. J. "Whiz."



precise and rugged as a mountain goa

BLUE STREAK

voltage regulator

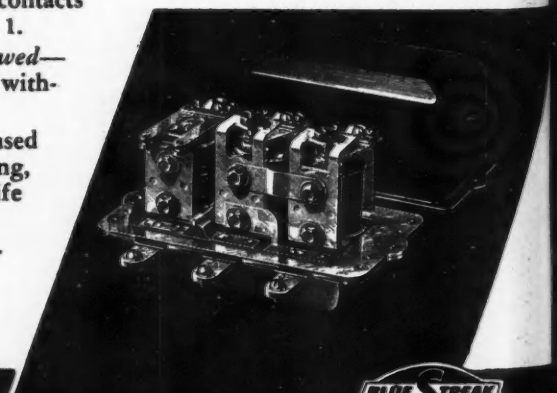
EXTRA CONTACTS: The current load is divided between 2 contacts to reduce burning and pitting. Ordinary regulators have only 1.

PERFECT ALIGNMENT: Current and voltage contacts are *screwed*—not riveted—to their brackets; permits perfect gap adjustment without distorting or bending parts.

RUGGED FIELD RESISTORS: Instead of fragile, brittle materials used in ordinary resistors, Blue Streak uses non-warping, non-cracking, heat-resistant fibre glass. Rugged field resistors mean longer life regulators.

COMPLETE PROTECTION: Safety insurance for you and for the regulator comes from the carefully covered under-surface. Ordinary regulators are completely exposed at the bottom.

Test Blue Streaks yourself in your own vehicles.



STANDARD MOTOR PRODUCTS, INC.

37-18 Northern Boulevard Long Island City 1, New York

1521-50 61-21

Bendix Products

CREATIVE ENGINEERING

GEARED TO QUANTITY PRODUCTION

HYDROVAC

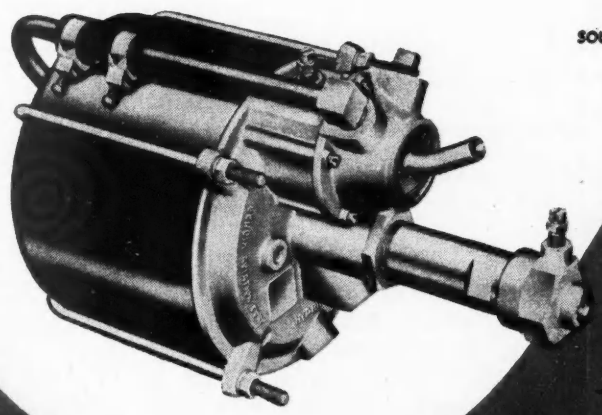
THE POWER BRAKE PREFERRED ABOVE ALL OTHERS!

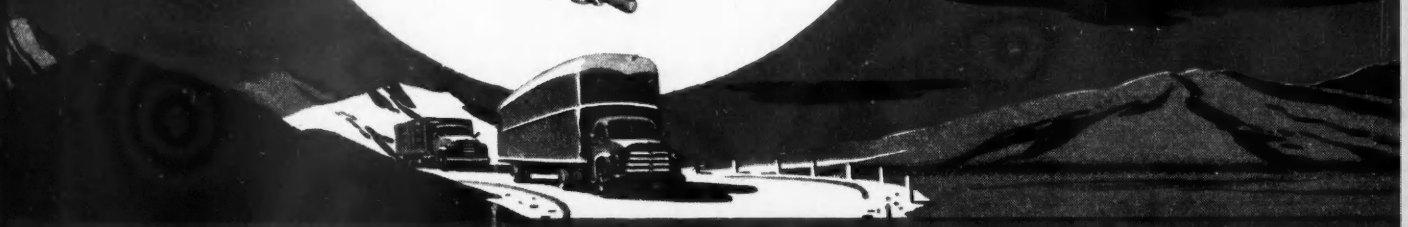
Over two million installations are conclusively undeniable proof of any product's popularity. In the field of power braking it clearly shows that one—the Bendix Hydrovac—is preferred above *all* others. Such overwhelming acceptance by the men who service, drive and own the nation's trucks is impressive enough in itself. It further suggests, however, that Hydrovac* power braking might very profitably be included as original equipment by most manufacturers. If you are interested in taking advantage of this great pre-sold market, write the factory direct for details on Hydrovac—the undisputed leader in power braking.

*REG. U.S. PAT. OFF.

BENDIX PRODUCTS DIVISION OF
SOUTH BEND 20, INDIANA

Export Sales: Bendix International Division, 72 Fifth Avenue, New York 3, N. Y.

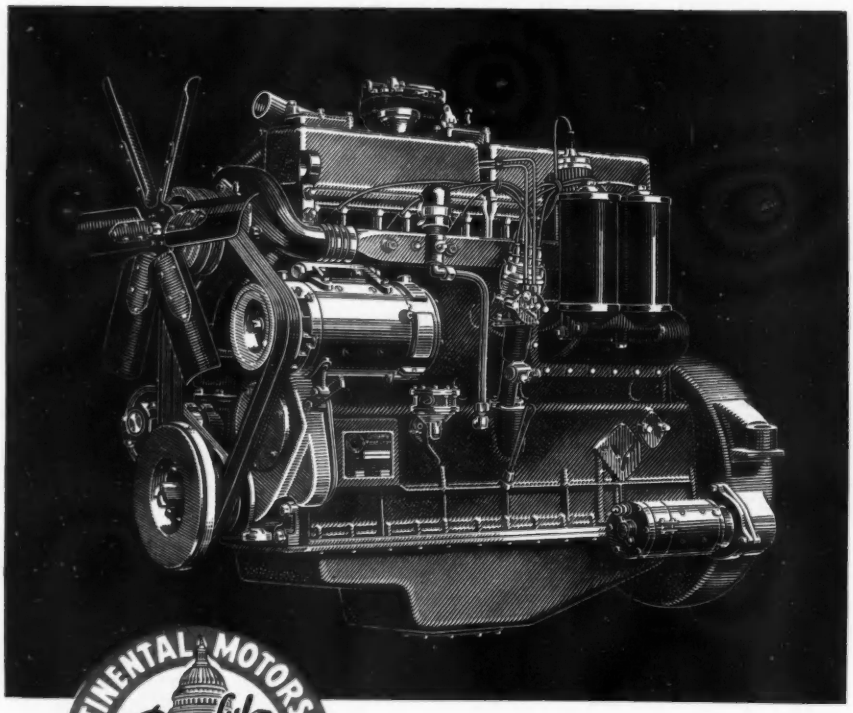




BUILDERS OF THE BASICS OF BETTER MOTOR VEHICLES

1944-1

THERE AND BACK FASTER... FOR LESS



CONTINENTAL MOTORS
Powerful as the Nation
AMERICA'S STANDARD

S-6749

Six-cylinder overhead-valve engine for heavy-duty transportation use. Heat-treated, pressure tested block and head. Exclusive individual porting. Full-length water jackets with directed coolant flow. Tocco-hardened seven-bearing crankshaft. Leakproof water pump. 250 h.p. at 2600 r.p.m. Write for Bulletin TS48749.

For faster highway schedules and lower ton-mile costs, choose the truck or tractor powered by one of these heavy-duty transportation models, modern-to-the-minute additions to the Continental Red Seal line. Designed for operation at higher r.p.m., they open the way for the use of higher gear ratios, resulting in faster pick-up, better hill performance, and higher over-the-road speeds. They are supplied with heads adapted to today's gasoline, and will use new fuels with improved performance and economy as the latter become available. Most models can be adapted to butane, and several have counterparts in Continental Motors' Diesel line. Parts requiring occasional adjustment are unusually easy to get at. Overhead-valve assemblies are removable as a unit; tappets on all models are quickly removed without pulling camshaft. And like all Continental engines, they're backed by a parts and service network reaching from coast to coast.

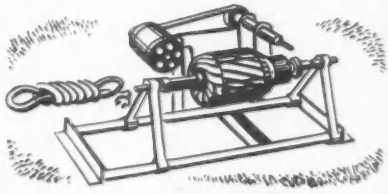
Continental Motors Corporation
MUSKEGON, MICHIGAN

UNDERCOATINGS, for Chassis and Body—*cont.*

Insul-Mastic Corp. of America, 1144 Oliver Bldg., Pittsburgh 22, Pa. "Karkote."
Keystone Asphalt Products Co., 43 E. Ohio St., Chicago 11, Ill. "Kapco." (Under fender.)
Lion Oil Co., Lion Oil Bldg., El Dorado, Ark. "Nokorode." (Underbody.)
Minnesota Mining & Mfg. Co., Adhesive & Coatings Div., 411 Piquette Ave., Detroit 2, Mich. "Underseal." (Underbody.)
Moore & Co., Samuel, Mantua, Ohio. "Rub-Rub."
Morteli Co., J. W., 550 N. Hobbie Ave., Kankakee, Ill. "Insulmat," "Mortex."
National Automotive Fibres, Inc., 19925 Hoover Ave., Detroit 5, Mich.
Nox-Rust Chemical Co., 2428 S. Halsted St., Chicago 8, Ill. "Nox-Sound."
Pennsylvania Refining Co., 2686 Lisbon Rd., Cleveland 4, Ohio.
Pioneer Latex & Chemical Co., Lincoln Blvd., Middlesex, N. J. "Placco." (Underbody.)
St. Clair Rubber Co., 440 Jefferson Ave., E. Detroit 26, Mich. "Clair-Coat." (Underbody.)
Silvercote Products, Inc., 161 E. Erie St., Chicago 11, Ill.
Witco Chemical Co., 75 E. Wacker Drive, Chicago 1, Ill. "Witcote."

UNDERCUTTERS, Mica

Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13F, Mich.
Atlas Press Co., 1842 N. Pitcher St., Kalamazoo 13D, Mich.
Green Engineering Co., W. S., 212 W. St. Paul Ave., Waukesha, Wis. "Trucut."
Ideal Industries, Inc., 1014 Park Ave., Sycamore, Ill. (Portable electric.)
Lanagan & Hoke, 431 E. Collom St., Philadelphia 44, Pa.
Martindale Electric Co., 1340 Hird Ave., Cleveland 7, Ohio.
Oil-Purifier, Inc., 3450 Broadway, Oakland, Calif. "Car-Life."
Page Slotting Saw Co., 1836 Lawrence Ave., Toledo 6, Ohio.
Red Devil Tools, Coit St., Irvington 11, N. J.
Rite Tool, Inc., 31 N. Seventh St., Fall River, Mass.



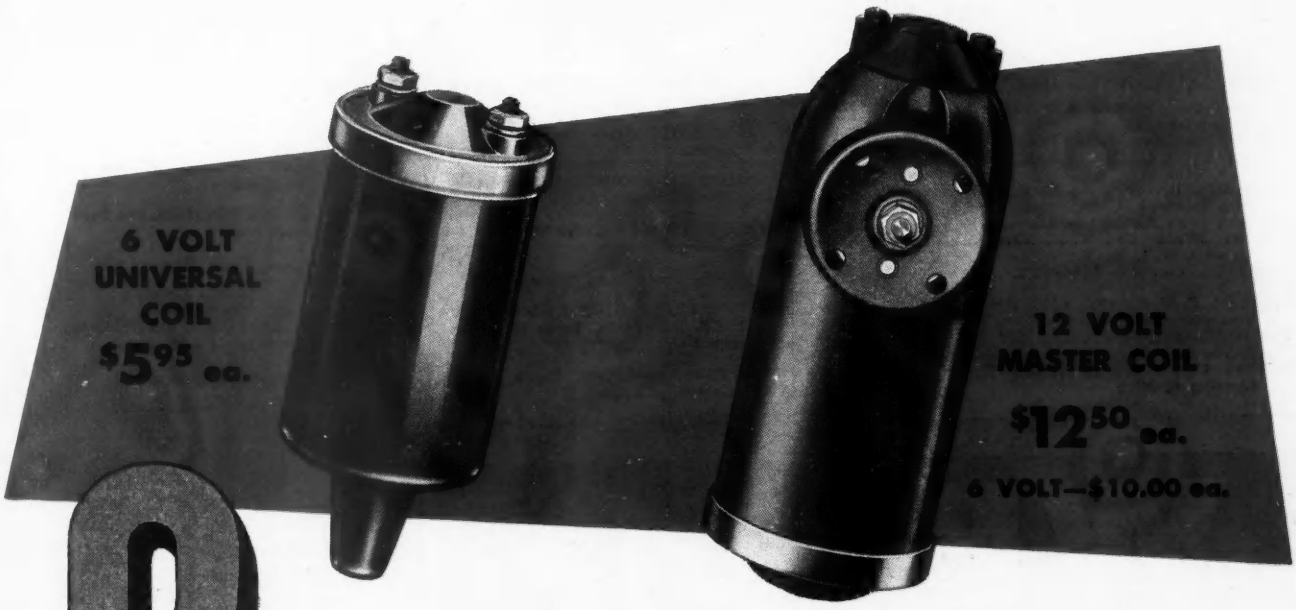
Weidenhoff, Inc., Joseph, 4340 W. Roosevelt Rd., Chicago 24, Ill.
Wilson, K. R., 215 Main St., Buffalo 3, N. Y.
Zoerman-Clark Mfg. Co., Jackson, Mich.

UNIVERSAL JOINTS

(See also Shafts, Propeller)

Almetal Universal Joint Co., 1553 E. 55th St., Cleveland 3, Ohio.
Automotive Mfg. Co., 510 W. Fulton St., Chicago 22, Ill.
Baush Machine Tool Co., 156 Wason Ave., Springfield, Mass.
Bendix Products Div., Bendix Aviation Corp., 401 Bendix Drive, South Bend 20, Ind. "Bendix-Weiss."
Blood Brothers Machine Co., Div. Standard Steel Spring Co., Allegan, Mich.
Cleveland Steel Products Corp., 7306 Madison Ave., Cleveland, Ohio.
Gear Grinding Machine Co., 3901 Christopher Ave., Detroit 11, Mich. "Rzeppa."
Gray & Prior Machine Co., 614 Windsor St., Hartford, Conn. "Universal." (For power take-off application.)
Hercules Service Parts Corp., 13541 Auburn Ave., Detroit 23, Mich.
Lion Auto Parts & Mfg. Co., 1920 S. Michigan Ave., Chicago 16, Ill.
Mechanics Universal Joint Div., Borg-Warner Corp., 2030 Harrison Ave., Rockford, Ill.
Morse Chain Co. (Div. of Borg-Warner Corp.), 7601 Central Ave., Detroit 8, Mich. "Morflex."
Motive Equipment Mfrs., Inc., 5253 W. Roosevelt Rd., Chicago 50, Ill. "Pilot."
Neapco Products, Inc., Pottstown, Pa.
New Process Gear Co., 500 Plum St., Syracuse, N. Y. "Tracta."
Pick Mfg. Co., West Bend, Wis.
Precision Universal Joint Corp., 615 S. California Ave., Chicago 12, Ill.

1870-66



2 HOTSPARK COILS FOR CAR AND TRUCK REPLACEMENT . . . BECAUSE THEY'RE POSITIVELY MOISTURE-PROOFED!

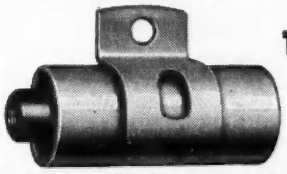
THE UNIVERSAL COIL: A new type coil that overcomes normal spark loss—because windings are evacuated in presence of oil to remove moisture and improve insulation. The bakelite case prevents moisture from seeping into the coil, and also has good insulation qualities. Gives higher output—a better start because of hotter spark. Well balanced windings create more voltage with less battery input.

A Universal Bracket is furnished to make installation on most vehicles. The Universal Coil is especially adapted to automobiles and light duty trucks.

THE MASTER COIL: This new heavy duty truck coil is completely waterproof—with windings sealed in a special transformer oil to prevent short circuits or breakdowns. Windings and oil are housed in a bakelite case. The bakelite is moisture proof and is an excellent insulator. Wire leading to the distributor is also sealed in to make coil waterproof. A "must" for better starting, due to hot spark, which is delivered even with a low battery. The Master Coil has a greater number of turns in the secondary circuit, thereby transmitting more voltage than most heavy duty coils.

Brackets and adapters are furnished to make installation on all makes of vehicles: The Master Coil is especially adaptable to bus, heavy duty trucks, and boats where endurance and super efficiency are essential requirements.

Now included in the Holley Carburetor and Ignition Service Kit . . . Write for information on these faster selling Service Station Items.



The HOLLEY CONDENSER
$1.50 each

The Holley Condenser is balanced for both Holley Universal and Master Coils in the six or twelve volt sizes. This Condenser is designed and manufactured to withstand moisture, and any changes in atmospheric conditions.

HOLLEY Carburetor Co.

5920 VANCOUVER AVE., DETROIT 8, MICH.

AUTOMOTIVE EQUIPMENT AND ACCESSORIES

1840-1

UNIVERSAL JOINTS—cont.

Rowland, Inc., William & Harvey, Frankford, Philadelphia 24, Pa.
Saginaw Steering Gear Div., General Motors Corp., Clinton & Hamilton Sts., Saginaw, Mich.
Spicer Mfg. Div. of Dana Corp., 4100 Bennett Rd., Toledo 1, Ohio. "Spicer."
Standard Steel Spring Co., Coraopolis, Pa.
Stimmel Winch Co., 37-24 33rd St., Long Island City 1, N. Y.
Stow Mfg. Co., 445 State St., Binghamton, N. Y.
Universal Products Co., 6455 Kingsley Ave., Dearborn, Mich. "Detroit."
Williams Engineering Corp., 224 Park Ave., Baltimore, Md.
Wohlert Corp., 700 E. Grand River Ave., Lansing 6, Mich.

UPPER CYLINDER LUBRICANTS. See Oil. Upper Cylinder

VALVE CLEANING TOOLS, See Tools, Valve Guide Cleaning

VALVE GRINDING COMPOUND, See Compounds, Valve Grinding

VALVE GRINDING HAND, See Tools, Valve Grinding and Lapping

VALVE GUIDES, See Guides, Valve

VALVE GUIDE INSTALLING AND REMOVING TOOLS, See Tools, Valve Guide Installing and Removing

VALVE LIFTERS, See Tools, Valve Lifting and Spring Compressing

VALVE REFACERS, See Refacers, Valve

VALVE SEAT GRINDERS, See Grinders, Valve Seat

VALVE SEAT INSTALLING, See Tools, Valve Seat Installing

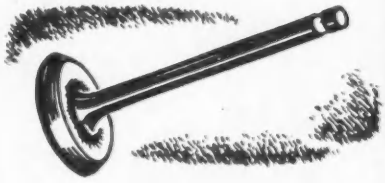
VALVE SPRING TESTERS, See Testers, Valve and Clutch Spring

VALVES, Air Tank Drain

Fleet Operators Service Laboratory, Main P. O. Box 117, Dearborn, Mich. (Automatic.)
Master Equipment Corp., Dayton, Ohio.
Quincy Compressor Co., Quincy, Ill.

VALVES, Engine Poppet

Allied Motor Parts Co., Fox Theatre Bldg., Detroit, Mich.
Aluminum Industries, Inc., 2438 Beekman St., Cincinnati 25, Ohio. "Permite."
Eaton Mfg. Co., Valve Div., 9771 French Rd., Detroit, Mich.
Elgin Machine Works, 412 N. State St., Elgin, Ill.
Parts Processing Corp., 2100 Howard St., Detroit, Mich. "Par-Plus." (For trucks and buses.)
Parts Mfg. Co., 311 W. 66th St., New York 23, N. Y. "Parco."
Remco Products Corp., State & Hay Sts., York, Pa.
Rich Mfg. Co., Battle Creek, Mich. "R.M.C."
Sealed Power Corp., 500 Sanford St., Muskegon, Mich.



Thompson Products, Inc., 2196 Clarkwood Rd., Cleveland 3, Ohio.
Toledo Steel Products Co., 3300 Summit St., Toledo 11, Ohio.
White Machine Works, 1401 Bellevue Ave., Eau Claire, Wis. "Superior."

VALVES, Gasoline Tank

Buckeye Iron & Brass Works, P. O. Box 883, Dayton 1, Ohio.
Imperial Brass Mfg. Co., 1234 W. Harrison St., Chicago 7, Ill.
Morris Bros. Co., 2401 Elm St., Dubuque, Iowa.
Parker Appliance Co., 17325 Euclid Ave., Cleveland 12, Ohio.
Roberts Brass Mfg. Co., 5435 W. Fort St., Detroit 9, Mich.
Weatherhead Co., 300 E. 131st St., Cleveland 8, Ohio.

VALVES, Safety or Emergency
(For safeguarding contents of tanks)

Davisbilt Products Co., 1110 Richmond St., Cincinnati 3, Ohio.
Heil Co., 3000 W. Montana St., Milwaukee 1, Wis.
McDonald Mfg. Co., A. Y., 12th & Pine Sts., Dubuque, Iowa.
Monroe Standard, Inc., Wyandot Bldg., Galion, Ohio. Pelton Moisture Ejector Valve.
Morris Bros. Co., 2401 Elm St., Dubuque, Iowa.
Philadelphia Valve Co., Aramingo Ave. & Ontario St., Philadelphia 34, Pa.
Shand & Jurs Co., 917 Carlton St., Berkeley 2, Calif. "S & J."
Westinghouse Air Brake Co., Industrial Div., Wilmerding, Pittsburgh, Pa.

VALVES, Three-Way and Four-Way (Air)

Branick Mfg. Co., Fargo, N. D.
Cleco Div. of Reed Roller Bit Co., 5125 Clinton Drive, Houston 1, Texas.
Hannifin Corp., 1101 S. Kilbourn Ave., Chicago 24, Ill.
Hunt & Son, C. B., 1913 E. Pershing St., Salem, Ohio. "Quick as Wink."
Ross Operating Valve Co., 120 E. Golden Gate Ave., Detroit 3, Mich.
Westinghouse Air Brake Co., Industrial Div., Wilmerding, Pittsburgh, Pa.

VALVES, Tire
(See also Caps, Tire Valve)

Acme Air Appliance Co., 100 Hinsdale St., Brooklyn 7, N. Y.

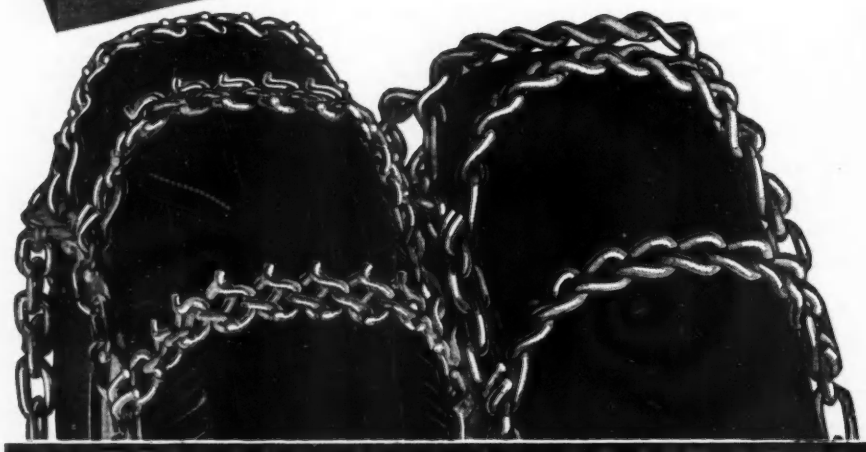
WESCO
TIRE CHAINS

WHEN THE WEATHER IS ROUGH AND THE GOING TOUGH . . .

. . . WESCO CHAIN will help keep your fleet on the road, on the move and on schedule. There is extra traction, extra safety and extra wear built into every pair—the hardness to resist wear, the toughness to withstand shock and strength to hold under a hard pull.

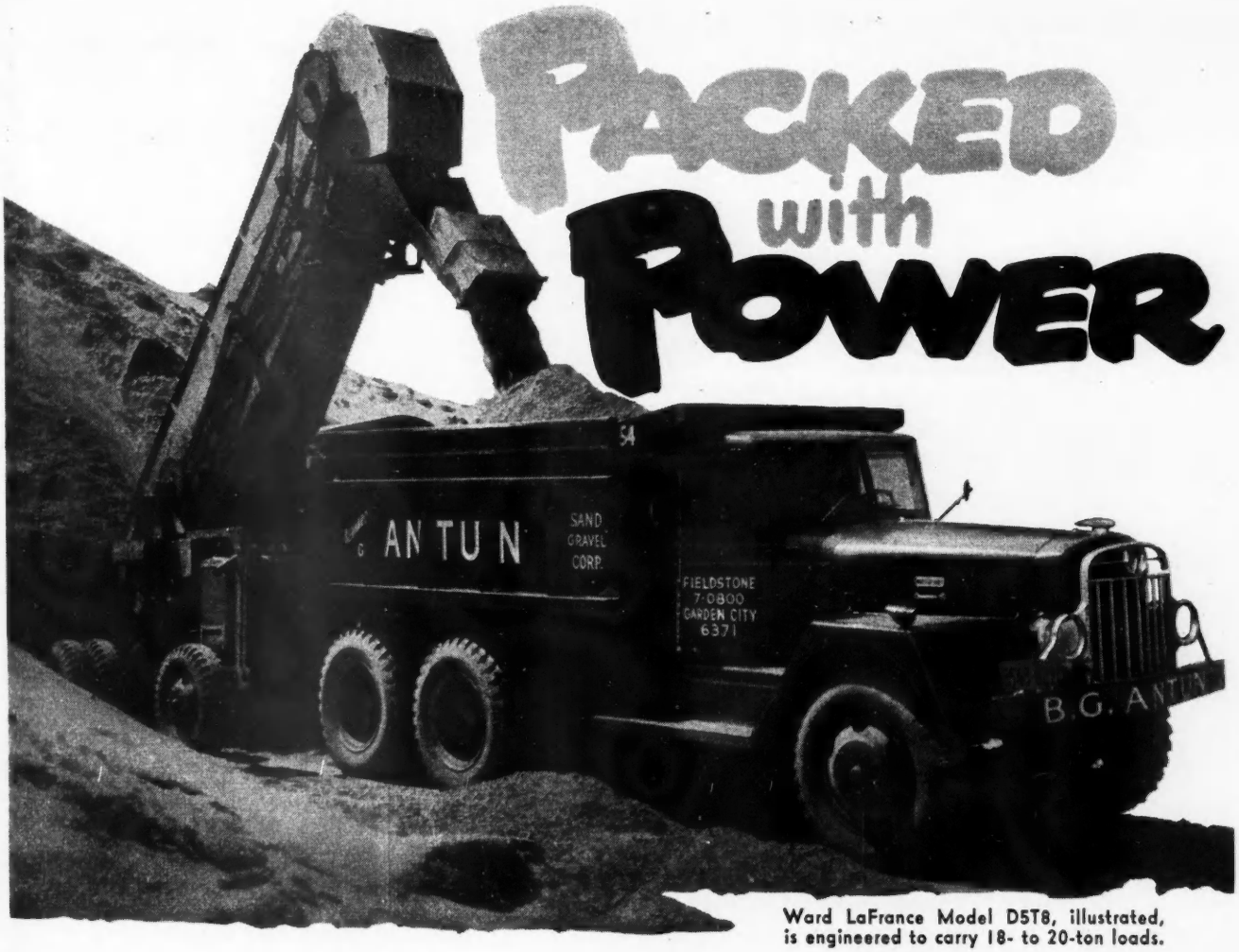
"Custom" fitting, with time-saving easy-on easy-off fasteners, they are quality chains you can rely on. There are no better chains made.

WRITE FOR CATALOG SHEETS



WESTERN CHAIN COMPANY
1801 W. BELMONT AVE. CHICAGO 13, ILLINOIS

3830-50
1 0481



Ward LaFrance Model D5T8, illustrated, is engineered to carry 18- to 20-ton loads.

. . . for roughest jobs

Here's one hauling job that calls for plenty of power and off-the-road stamina — the kind of heavy-duty work that suits Ward LaFrance Trucks.

Wherever power-packed performance is needed, you're likely to find Ward LaFrance Trucks in service. These giant trucks are built to take punishment . . . to move in on the jobs where the going is rough. Their economical-to-operate engines offer reserve power — plus; their heavy-duty construction enables them to handle heavier loads.

Built by the makers of the world-famous, war-proven M-1 Wrecker, Ward LaFrance Trucks can be manufactured to meet your specifications for special, heavy-duty jobs. In 2- or 4- or 6-wheel drive with either conventional cab or cab-over-engine . . . any selection of tandem axle . . . gear compounding to meet any requirement . . gasoline-, butane-, or diesel-powered . . . heat treated alloy steel frame . . . plus other outstanding Ward LaFrance features.

Consider Ward LaFrance first . . . for trucks built to last.

WARD LaFRANCE
TRUCK CORPORATION

Manufacturers of Motor Trucks and Fire Apparatus for Over 30 Years.

Bernard G. Antun Sand & Gravel Corp.
DEALERS IN
Sand, Gravel, Mixture, Stone, Cinders, Etc.
1500 Jericho Turnpike
NEW HYDE PARK, N. Y.

Ward LaFrance Truck Corporation
Elmira, New York.

Gentlemen:

We have been operating "Ward LaFrance" trucks for the past 23 years.

During all these years "Ward LaFrance" trucks have given us top-grade performances.

Recently we have also put into service some heavy six wheel dump trucks, which also have given us top-grade performances.

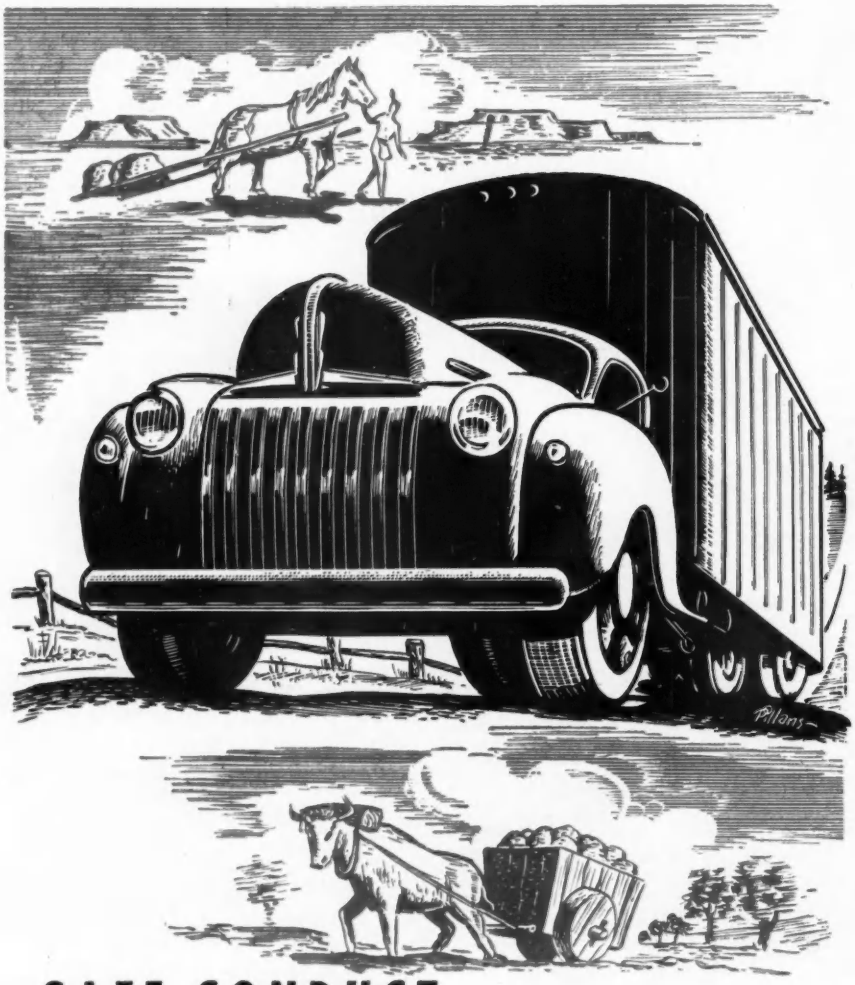
"Ward LaFrance" trucks have enjoyed dependability, low up keep costs and are economical in operating.

Bernard G. Antun Sand & Gravel Corp.
Bernard G. Antun
President.

For your roughest jobs, choose the truck that's packed with power . . . WARD LaFRANCE. See your local dealer or write Ward LaFrance direct.

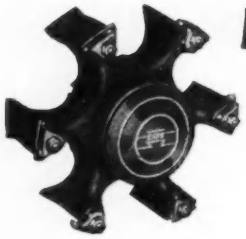
GENERAL OFFICE & FACTORY: Grand Central Avenue, Elmira, N.Y. *Tel. 5171*
DIRECT FACTORY BRANCH: 139th Street & Bruckner Blvd., New York 54, N.Y. *Tel. CYpress 2-3300*
EXPORT: Ward LaFrance International, Inc., Elmira, N.Y., U.S.A.
Cable Address: "WARDTRUCK"

3811-1



SAFE CONDUCT

For Costly Cargo . . .



Since wheels replaced the labored drag the age-old challenge to improve is best exemplified by Erie Wheels. Strong, malleable iron wheels . . . Tough, resilent wheels . . . Wheels engineered to absorb road shocks . . . Wheels whose turbine-like spokes cool the tires and drums at any speed . . . Wheels that guarantee Safe Conduct of the nation's vitally important cargoes . . . Erie Wheels of course!

Specify . . .

Erie Wheels

ERIE MALLEABLE IRON COMPANY

ERIE • PA.

VALVES, Tire—cont.

Bowes "Seal Fast" Corp., 228 N. Pine St., Indianapolis 7, Ind. (Cores only.)
Bridgeport Brass Co., 30 Grand St., Bridgeport 2, Conn.
Dill Mfg. Co., 700 E. 82nd St., Cleveland 8, Ohio.
G. M. Co Mfg. Co., 43-10 21st St., Long Island City, L. I., N. Y. (Cores only.)
Goodrich Co., B. F., 500 S. Main St., Akron, Ohio.
Gross Mfg. Co., 1711 California St., Monrovia, Calif.
Monarch Insulated Wire Co., 491 Broadway, New York 12, N. Y. (Cores only.)
Rite-Way Products Co., 39 W. Iowa Ave., Memphis 2, Tenn.
Schrader's Son, Div. of Scovill Mfg. Co., A., 470 Vanderbilt Ave., Brooklyn 17, N. Y.
Speaker Corp., J. W., 3059 N. Weil St., Milwaukee 12, Wis.

VENTILATORS, Bus and Truck

Electric Service Mfg. Co., 17th & Cambria Sts., Philadelphia 32, Pa. "Keystone." (Bus.)
Service Products Corp., 201 S. Rural St., Indianapolis 1, Ind. (Bus.)
Thermo-Aire Div. of Evans Products Co., Plymouth, Mich. "Evans." (Bus and truck cab.)

VENTILATORS, Crankcase

AC Spark Plug Div., General Motors Corp., 1300 N. Dort Highway, Flint 2, Mich.
Donaldson Co., 666 Pelham Blvd., St. Paul 4, Minn.
Fram Corp., 55 Pawtucket Ave., East Providence 16, R. I.
Monarch Tool & Machinery Co., 3235 S. Racine Ave., Chicago 8, Ill.
Ryder Mfg. Co., 220 N. Ada St., Chicago 7, Ill. (For Ford, Plymouth and Dodge cars.)

VENTILATORS, Roof

Imperial Electric Co., 214 W. Pearl St., Union City, Ind. (Cab.)
Metalcraft Mfg. Co., 916 E. 23rd St., Indianapolis, Ind.

VENTS, Tank Body

Heil Co., 3000 W. Montana St., Milwaukee 1, Wis.
McDonald Mfg. Co., A. Y., 12th & Pine Sts., Dubuque, Iowa.
Morris Bros. Co., 2401 Elm St., Dubuque, Iowa.
Philadelphia Valve Co., Aramingo Ave. & Ontario St., Philadelphia 34, Pa.
Protectoseal Co., 1920 S. Western Ave., Chicago 8, Ill.

VISCOSIMETERS

Precision Scientific Co., 3737 W. Cortland St., Chicago 47, Ill. "Saybolt."
Visco-Meter Corp., 315 Grote St., Buffalo 7, N. Y. (Auto oil.)

VISES, Piston

Acorn Mfg. Co., 33rd & Reed Sts., Erie, Pa. "Amco."
Evans Reamer & Machine Co., 5490 Dunham Rd., Maple Heights, Ohio.
Hastings Mfg. Co., 375 E. Mill St., Hastings, Mich.
Kent-Moore Organization, Inc., 5-105 General Motors Bldg., Detroit 2, Mich.
National Machine & Tool Co., 4077 Page Ave., Jackson, Mich.
Production Devices, Inc., N. Williams St., Whitehall, N. Y. "Airlox." (Pneumatic and hydraulic.)
Stevens Walden, Inc., 475 Shrewsbury St., Worcester, Mass.
Zim Mfg. Co., 3037 Carroll Ave., Chicago, Ill.

VISES, Piston Pin

Ammco Tools, Inc., 2100 Commonwealth Ave., North Chicago, Ill.
Evans Reamer & Machine Co., 526 S. Main St., New Lexington, Ohio.
Starret Co., L. S., 1 Crescent St., Athol, Mass.
Thompson Products, Inc., 23555 Euclid Ave., Cleveland 17, Ohio. "Velvet Grip."
Toledo Steel Products Co., 3300 Summit St., Toledo 11, Ohio.
Wilkening Mfg. Co., 2000 S. 71st St., Philadelphia, 42, Pa. "Pedrick."

VOLTAGE REGULATORS, See Regulators, Current and Voltage

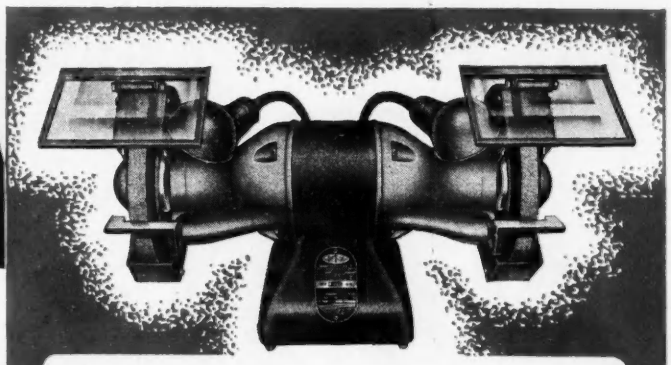
3870.66
1188

Equip for Long Faithful Service

with

SIOUX

BENCH GRINDERS



SIOUX 10" BENCH GRINDER

No. 2050-10"—1 H. P. ball bearing motor—oil packed and sealed—no further lubrication. Extra wide enclosed guards accommodate wire brush. Safety eye-shields, adjustable tool rests. Conveniently located lights with shades. One coarse—one fine grinding wheel. Rated 1725 R. P. M. Pedestal available.

SIOUX 6" BENCH GRINDER

No. 2065—1/3 H. P. Ball bearing—packed and sealed. Adjustable tool rests. Rating 3450 R. P. M. One fine—one coarse grinding wheel.

SIOUX 6" HEAVY DUTY

No. 2005-6". 1/3 H. P. ball bearing motor. Oil packed and sealed. Enclosed guards. Rated 3450 R. P. M.

SIOUX 6" BENCH GRINDER

No. 2069—1/4 H. P. Ball bearing, permanently lubricated. Adjustable tool rests. Rating 3450 R. P. M.

A SIZE FOR EVERY NEED
Priced to fit your Pocketbook.

• SIOUX grinders are correctly designed, precision machined and carefully assembled to give smooth, steady operation year after year. Oil packed and sealed—ball bearings.

Operators everywhere have a word for QUALITY in power tools—it's SIOUX. Ask your Jobber for details.

Sold only through Authorized SIOUX Distributors

STANDARD THE WORLD OVER

ALBERTSON & CO., INC. SIOUX CITY, IOWA, U. S. A.

3860-1

The Filters Designed For Engine Engineers

MICHIANA FILTERS

Widely Accepted By Foremost Engineers

There are no tricky ideas in MICHIANA Oil Filters—they are designed to do the one job of thoroughly absorbing a maximum amount of dirt, grit and other foreign particles to keep the lubricating oil clean. Clean oil is vital to engine efficiency.

Doing this job well means a big saving in oil consumption—it results in a drastic reduction of early and unnecessary wear, eliminating premature replacement or repair of parts.

Install *Michiana* Filters now,—Filters preferred and used by foremost engine builders and experienced operators of fleets . . . MICHIANA PRODUCTS CORPORATION, Michigan City, Indiana.

Request your copy of latest illustrated Bulletin 839 today.

MICHIANA OIL FILTERS

VULCANIZERS, Portable

Acme Air Appliance Co., 100 Hinsdale St., Brooklyn 7, N. Y. (Electric, tube.)
Bishman Mfg. Co., Osseo, Minn. (Tube.)
Bowes "Seal Fast" Corp., 228 N. Pine St., Indianapolis 7, Ind. "Bowes Lectroseal." (Electric tire.)
Dill Mfg. Co., 700 E. 82nd St., Cleveland 3, Ohio. "Dillectric." (Electric, tube.)
Lewis Equipment & Supply Co., 2740 Zuni St., Denver 11, Colo. "Tru-Cure." (Tube.)
Schrader's Son, Div. of Scovill Mfg. Co., A., 470 Vanderbilt Ave., Brooklyn 17, N. Y.
Speaker Corp., J. W., 3059 W. Weil St., Milwaukee 12, Wis. (Tube and valve stem.)

VULCANIZERS, Shop

Allied Automotive Corp., 14512 Burt Rd., Detroit 23, Mich. "Tireweld."
Bacon Vulcanizer Mfg. Co., 1267 67th St., Oakland 8, Cal. (Steam and electric tube.)
Balloon Tire Mould Co., 527 Ceres Ave., Los Angeles 13, Cal. "Brown." (Electric and steam tube.)
Biggs Boiler Works Co., 1007 Bank St., Akron, Ohio. (Steam tube.)
Center Line Mfg. Co., 506 N. Wichita St., Wichita, Kans. (Tube.)
Heintz & Co., James C., 3738 W. 143rd St., Cleveland, Ohio. (Tube.)
Inland Rubber Corp., 146 W. 27th St., Chicago 16, Ill.
Las-Stik Mfg. Co., Wayne & B Sts., Hamilton, Ohio. (Electric.)
Meath Mfg. Co., 2200 Spring St., Houston 10, Tex. (Tire and tube.)
Shaler Co., Waupum, Wis. (Tire.)

WASHERS (Fountain Brushes and Mops)

Flour City Brush Co., 303 Fifth Ave., S. E., Minneapolis 15, Minn. "Autowash," "Buswash," "Fleetwash." (Brushes.)
Kansas City Fountain Brush Mfg. Co., 1230 Oak St., Kansas City, Mo. "K. C." (Brushes.)
Laitner Brush Co., 2000 Brooklyn Ave., Detroit 26, Mich. "Laco." (Brushes.)
Master Specialty Co., 3016 E. Lake St., Minneapolis 6, Minn. "Wash-Master." (Revolving brushes and injector for liquid detergent.)
Milwaukee Dustless Brush Co., 530 N. 22nd St., Milwaukee 3, Wis. "Speed-Wash."
Pittsburgh Brass Mfg. Co., 3155 Penn Ave., Pittsburgh 1, Pa. "Fleet-Kleen." (Brushes.)
Rapids Equipment Co., B. Ave. & Sixth St., N. W., Cedar Rapids, Iowa. (Brushes; sole distributors, Rapids Products Co., 220 Sixth St., N. W., Cedar Rapids, Iowa.)
Tucker Mfg. Co., 305 First St., S. W., Cedar Rapids, Iowa. (Brushes.)
Weil-Ransom Co., 816 Fulton St., Chicago, Ill.

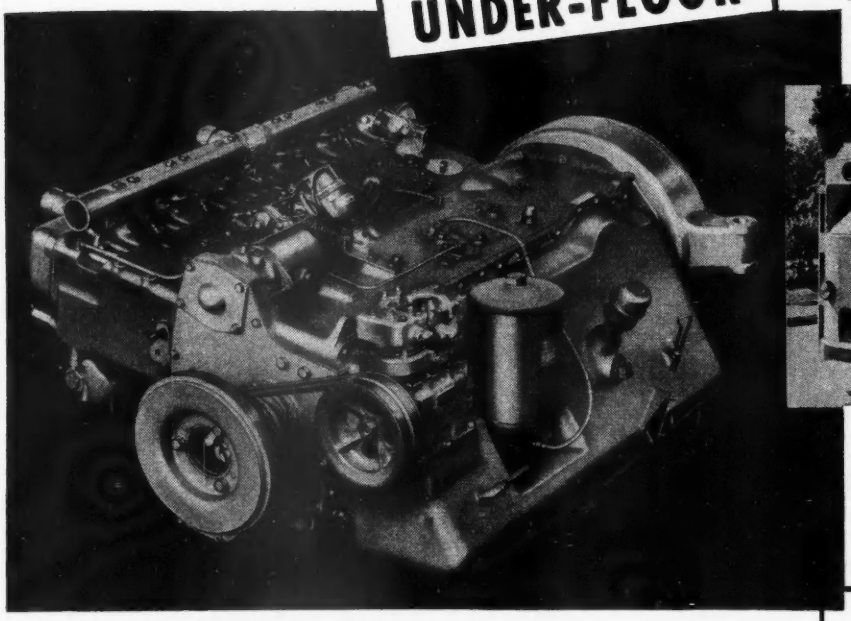
WASHERS, Metal Parts

Aeroil Products Co., 5701 Park Ave., West New York, N. J. "Aeroil Heet-Master," "Aeroil Dipmaster."
Alvey-Ferguson Co., 75 Disney St., Oakley, Cincinnati 9, Ohio. "A-F."
Barrett Co., Leon J., 1477 Grafton St., Worcester, Mass. "Typhoon." (Centrifugal.)
Blakeslee & Co., G. S., 1900 S. 52nd St., Cicero, Ill. "Niagara," "Blakeslee," "De-Greas-O."
Champion Laboratories, Inc., 122 Charles St., Meriden, Conn.
Circo Products Co., 12117 Berea Rd., Cleveland 11, Ohio.
Clayborne Mfg. Co., 3234 W. 31st St., Chicago 23, Ill.
Colt's Mfg. Co., 17 Van Dyke Ave., Hartford, Conn. "Autosan."
Cooper Co., D. C., 1467 S. Michigan Ave., Chicago 5, Ill.
Despatch Oven Co., 619 Eighth St., S. E., Minneapolis 14, Minn.
Detrex Corp., Box 501, Detroit 32, Mich.
Detroit Sheet Metal Works, 1308 Oakman Blvd., Detroit, Mich.
Drying Systems, Inc., 1810½ Foster Ave., Chicago 40, Ill. "Dry-Sys."
Eclipse Fuel Engineering Co., 711 S. Main St., Rockford, Ill. "McKee."
Erie Meter Systems, Inc., Pearl St. & Wagner Ave., Erie, Pa. "Erie Rotawasher."
Good-All Electric Mfg. Co., 112 W. First St., Ogallala, Neb.
Gray Co., 60 11th Ave., N. E., Minneapolis 13, Minn. "Graco."
Gray-Mills Corp., 2006 Ridge Ave., Evanston, Ill.
Hanson-Van Winkle-Munning Co., Matawan, N. J.
Internation Conveyor & Washer Corp., 652 E. Fort St., Detroit 26, Mich.

224 1366

new WAUKESHA *Horizontal* ENGINE

UNDER-FLOOR



For city, interurban and cross-country motor coaches, school buses, high speed COE truck-tractors and high speed haulage equipment.

✔ CHECK THESE MODERN FEATURES

Crankcase—Combined crankcase and cylinder block lies in horizontal position with cylinders at 10° angle above horizontal supporting arms. Alloy iron casting is exceptionally rigid to insure constant alignment of all moving parts. Extra heavy upper and lower decks provide firm support seats for cylinder sleeves, and extended oil pan flange gives additional strength to resist distortion. The seven-bearing bridges, tied to the side-walls by generous, large radius fillets, together with the directional coolant baffles, add still further to the rigidity of the entire engine structure.

Cylinders—Renewable, wet-type cylinder sleeves of Molychrome alloy, heat-treated to provide suitable hardness and insure long life.

Pistons—Heavy-duty aluminum alloy with four straight-side rings, all above the piston pin. Piston pin is full floating, with rectangular section Tru-Arc retainers.

Connecting Rods—Drop-forged, rifle-drilled, heat-treated, and matched in sets to ¼-ounce tolerance. Caps deeply ribbed and held by two husky alloy heat-treated cap bolts and locks. Large end precision ground for steel-backed, copper-lead precision bearing. Small end has hard bronze, diamond bored bushing.

Crankshaft — Drop-forged, heat-treated alloy steel. Fully counter-balanced and mounted in seven 3¼-inch steel-backed, copper-lead high-duty precision bearings. All main journals and crankpins are hardened to test 600 Brinell. The front end has a highly efficient vibration dampner, which in combination with counter-weights insures smoothness of operation at all loads and speeds.

Valves—Exhaust valves are Stellite-faced chrome-nickel forgings seating in Stellite inserts; intake valves are chrome-nickel alloy. Dual valve springs with taper block keepers and forged spring retainers are employed. Valve guides are renewable. Valve adjustment by screw and lock-nut.

Cooling—A positive gear driven, ball bearing, packless, coolant pump with full length cylinder jackets, baffles, and porting to cylinder head, forces coolant in directed paths at high velocity to every heat-sensitive area. Scaling and sludging are reduced to a minimum.

Lubrication—The positive gear driven oil pump forces oil under pressure to every main, rod, piston pin, camshaft, idler gear stud, and oil pump drive shaft bearing. An intermittent metered pressure line leads oil to the rocker arms and valve chamber as well as to the timing gear spray and air brake compressor. A large capacity oil sump with compartmentation insures a constant oil supply at all times. Both bayonet and indicating dial gauges are provided, as well as convenient inspection and drain openings. A large waste-packed filter is mounted on the oil pan.

Governor—Waukesha-built, gear driven, enclosed and flood oiled over-speed governor; does not prevent manual speed control up to pre-determined top speed.

• There are lots of other details you'll want to learn. Write for full particulars or engineering consultation. No obligation.

MODEL 140-GKB

Overall Length	50
Overall Width	49
Overall Depth	24
Maximum Drop From Support	11½
Bore and Stroke	4½ x 5½
Number of Cylinders	6
Displacement, Cu. In.	525
Number of Main Brgs.	7
Front Main Brg., Dia. x Lgth.	3¼ x 1⅝
Center Main Brg., Dia. x Lgth.	3¼ x 2 15/16
Inter. Brgs. (4), Dia. x Lgth.	3¼ x 1⅝
Rear Main Brg., Dia. x Lgth.	3¼ x 3
Conn. Rod Brg., Dia. x Lgth.	2⅝ x 1¾
Conn. Rod Lgth., C. to C.	10¼
Piston Pin, Floating, Dia. x Lgth.	1⅜ x 3⅞
Top Ring, Chrome Plated, (1) Width	⅛
Second Ring, Plain, (1) Width	⅛
Oil Control Rings, (2) Width	3/16
Flywheel Housing, S.A.E. No.	3

(All dimensions in inches unless otherwise specified)

WAUKESHA MOTOR COMPANY, WAUKESHA, WIS. • *New York, Tulsa, Los Angeles*

JJ EH81 1810-1

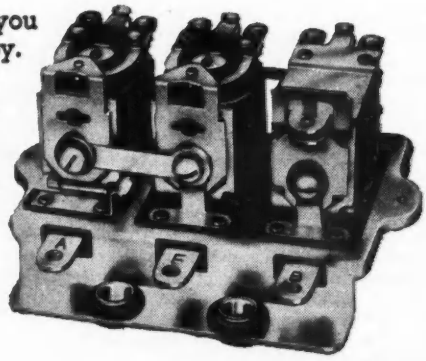
IGNITION REPLACEMENT PARTS • VOLTAGE REGULATORS
FUEL PUMPS • CARBURETOR KITS • AIR COOLED COILS

PEEDEE says... "TOPNOTCH TUNE-UP JOBS always go with this Trademark!"

● You are always sure of customer satisfaction when you use genuine P&D products. That's because they are manufactured entirely in our modern plant *from raw materials to finished products* to assure long, dependable service.

The P&D voltage regulator is typical of the expert automotive engineering, finest materials, and skilled workmanship that go into all P&D parts. See the large size insulated copper magnet wire that gives the windings maximum electrical stability. Next, notice the insulation. It's made of the best laminated phenolic plate available. And the contact points are the integral type . . . built to resist pitting. The riveting shank and contact proper are especially designed to provide minimum and unvarying electrical resistance between contact and mounting.

Yes sir — P&D parts are the best you can handle to keep customers happy. Write today for your free copy of the new Catalog No. 49 giving full information on P&D brushes, bushings, cut-outs, distributor products, etc. — the one *complete line* of electrical parts for all vehicles.

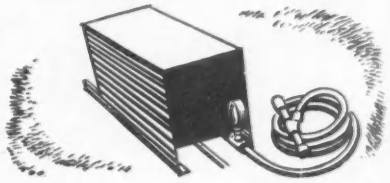


Turn Out Better Tune-up Jobs With PeeDee

P&D MANUFACTURING COMPANY, INC.
LONG ISLAND CITY 5, N. Y.

WASHERS, Metal Parts—cont.

Magnus Chemical Co., 185 South Ave., Garwood, N. J. "Magnus Aja-Dip," "Magnus Miji-Dip."
Mahon Co., R. C., 8650 Mt. Elliott Ave., Detroit, Mich. (Combined belt conveyorized washer and dryer.)
Michigan Fleet Equipment Co., 754 Front Ave., Grand Rapids, Mich. "M-F."
Newcomb-Detroit Co., 5741 Russell St., Detroit 11, Mich. "Uni-Wash."
Peters-Dalton, Inc., 17924 Ryan Road, Detroit 12, Mich. (Combined belt conveyorized washer and dryer.)
Phillips Mfg. Co., 3475 Toughy Ave., Chicago 45, Ill. "Phillips Torrent."
Practical Products Co., 2632 Nicollet Ave., Minneapolis 8, Minn. "Kleer-Flo."
Protectoseal Co., 1920 W. Western Ave., Chicago 8, Ill. "Air-Matic."
Ransohoff, Inc., N., 16 E. 72nd St., Carthage, Cincinnati 16, Ohio.
Schmieg Industries, Inc., 308 Piquette St., Detroit 2, Mich.



Shepard-Thomason Co., 2023 W. Gage Ave., Los Angeles 44, Calif. "Thomason." (Brake shoes and parts.)
Solventol Chemical Products, Inc., 15841 Second Blvd., Detroit, Mich.
Tivit Products Co., Box 2917 Terminal Annex, Los Angeles 54, Calif.
Turco Products, Inc., 6135 S. Central Ave., Los Angeles 1, Calif.
U. S. Galvanizing & Plating Equipment Corp., 27-41 Heyward St., Brooklyn, N. Y.
Winona Tool Mfg. Co., 1430 W. Broadway, Winona, Minn. "Wi-To-Co."

WASHERS, Vehicle

(Water, steam and compressed air)

Bean Div. Food Machinery & Chemical Corp., John, 1305 S. Cedar St., Lansing 4, Mich. (Steam.)
Champion Pneumatic Machinery Co., 8170 S. Chicago Ave., Chicago 17, Ill.
Clayton Mfg. Co., 1363 Ellis Lane, El Monte, Calif. "Kerrick Kleaner." (Oil and gas fired.)
Cooper Co., D. C., 1467 S. Michigan Ave., Chicago 5, Ill. (Steam.)
Curtis Pneumatic Machinery Div. of Curtis Mfg. Co., 1927 Kienlen Ave., St. Louis 20, Mo.
Deming Co., Salem, Ohio.
Detrex Corp., Box 501, Detroit 32, Mich. "Drex-Foamizer."
Erie Meter Systems, Inc., Pearl St. & Wagner Ave., Erie, Pa. "Erie Rotowasher."
Friend Mfg. Co., East Ave., Gasport, N. Y.
Hardie Mfg. Co., Mechanic St., Hudson, Mich.
Homestead Valve Mfg. Co. (Hypressure Jenny Div.), Narrows Run Rd., Coraopolis, Pa. "Hypressure Jenny." (Steam vapor spray.)
Hydro-Air Cleaning Systems, Inc., 2130 E. 105th St., Cleveland 6, Ohio.
Malsbary Mfg. Co., 845 92nd Ave., Oakland 3, Calif. (Steam.)
Ross & White Co., Chicago Daily News Bldg., Chicago 6, Ill. "Blackhall" van washer.
Siebring Mfg. Co., 501 Main St., George, Iowa. (Steam.)
Southwest Pump Co., First & Center Sts., Bonham, Tex.
Tivit Products Co., 130 E. Elmyra St., Los Angeles 12, Calif. "Kelite."
Turco Products, Inc., 6135 S. Central Ave., Los Angeles 1, Calif.
Wayne Pump Co., Tecumseh & Cochran Sts., Fort Wayne 4, Ind.
White Engineering & Mfg. Co., 70 W. Passaic St., Rochelle Park, N. J. (Steam.)
Wilson, K. R., 215 Main St., Buffalo 3, N. Y.

WASHERS, Windshield (Vacuum Operated)

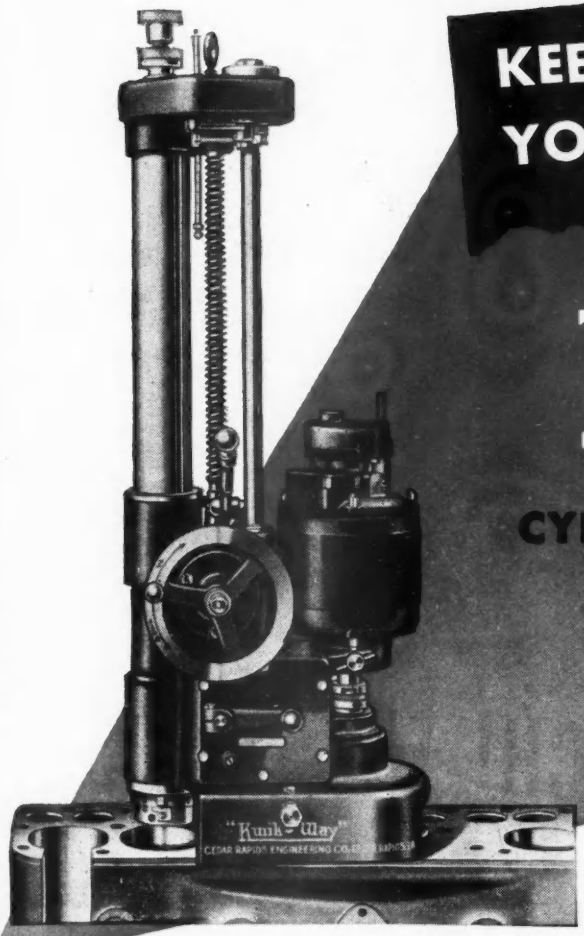
Trico Products Corp., 817 Washington St., Buffalo 3, N. Y.

WAX, See Polish, Body

WEATHER STRIPS

Backstay Welt Co., Oak & Howard Sts., Union City, Ind. "Tricord."
Bridgeport Fabrics, Inc., 805 Wood Ave., Bridgeport, Conn. "Inner Seal." (Door.)

1843-66
0181



KEEP MORE PROFIT IN YOUR OWN SHOP...

Kwik-Way

CYLINDER BORING MACHINE
Model "F"

ONLY KWIK-WAY OFFERS ALL THESE SUPERIOR FEATURES

- **Screw feed with automatic retraction**
- **Two speeds—instantly changeable**
- **Three finger centering for greater accuracy**
- **Rigid construction—no additional supporting devices necessary**
- **Quick, positive, non-distorting anchoring**
- **Bores close to dash**
- **Improved V-belt boring spindle drive eliminates "gear chatter" evidence on finished cylinder wall**
- **Pre-loaded spindle bearings**
- **Quick, easy, accurate tool setting**
- **Closer limits of accuracy—highest finish attainable**
- **All parts designed to retain original accuracy for long periods of service**

●

Plan to put KWIK-WAY to work and keep more profits in your own shop. Write for illustrated literature on the entire Kwik-Way System of Motor Rebuilding. SEND COUPON TODAY.

Combining speed with precision, the KWIK-WAY Cylinder Boring Machine is a real profit-maker on all types of reboring jobs—and there isn't a machine made that will equal or surpass it for accuracy. Compact in design, simple in set-up and operation, it does the complete job with speed and ease. Anyone who can read a mike can do a top rebore job with KWIK-WAY.

Write for Full Details

CEDAR RAPIDS ENGINEERING COMPANY
912 17th STREET N. E. CEDAR RAPIDS 1, IOWA

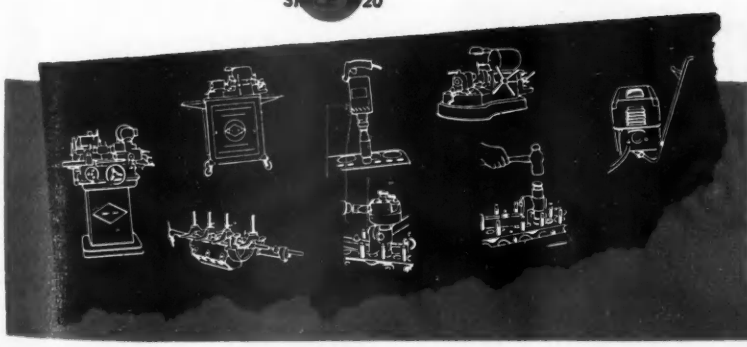
SERVING THE MOTOR REBUILDING INDUSTRY SINCE 1920

CEDAR RAPIDS ENGINEERING CO.
912 17th Street N. E., Cedar Rapids 1, Iowa

Please send information on KWIK-WAY Machines checked:

- ☐ Cylinder Boring Machine
- ☐ Vortex Suction Device
- ☐ Line Boring Machine
- ☐ Piston Cam Turning and Grinding Machine
- ☐ Valve Facing Machines
- ☐ Valve Seat Grinder
- ☐ Valve Seat Insert Tool
- ☐ Complete Motor Rebuilding Equipment

*Name*_____
*Address*_____
*City*_____ *Zone*_____
*State*_____



3860-1

WEATHER STRIPS—cont.

Brockton Stay Co., 24 Essex St., Haverhill, Mass.
Buckeye Reliner Producing Co., 637 N. Jackson St., Lima, Ohio.
Carter Co., George R., 630 Lycaste Ave., Detroit, Mich.
Continental Rubber Works, 1902 Liberty St., Erie, Pa. "Vitalic."
Detroit Gasket & Mfg. Co., 12640 Burt Rd., Detroit 23, Mich.
Dryden Rubber Div., Sheller Mfg. Corp., 1014 S. Kildare Ave., Chicago 24, Ill.
Durkee-Atwood Co., 215 Seventh St., N. E., Minneapolis 13, Minn.
General Tire & Rubber Co., Englewood & Holmes Ave., Akron, Ohio.
Goodrich Co., B. F., 500 S. Main St., Akron, Ohio.
Gordon Co., J. P., 232 Neilson St., Columbus 16, Ohio.
Hamilton-Wade Co., 52 Haverhill St., Brockton 62, Mass.
Hope Webbing Co., Providence, R. I.
Industrial Rubber Goods Co., St. Joseph, Mich.
Inland Mfg. Div., General Motors Corp., 2727 Inland Ave., Dayton 1, Ohio.
Kastar, Inc., 200 Lincoln Ave., New York 54, N. Y. "Kar-Seal," "Stix On."
Koehler Rubber & Supply Co., 3865 Carnegie Ave., Cleveland 15, Ohio. "Holdfast."
Kravex Mfg. Co., 1187 Bedford Ave., Brooklyn 16, N. Y. "K M." (Door and trunk.)
Lange Machine Works, Henry G., 150 N. May St., Chicago 7, Ill.
Raybestos-Manhattan, Inc., Manhattan Rubber Div., 61 Willet St., Passaic, N. J. "Manhattan."
Roberts Toledo Rubber Co., Prospect & MC R. R., Toledo 6, Ohio.
Rodic Rubber Corp., Allen Ave., New Brunswick, N. J.
Rubbercraft Corp. of Cal., Ltd., 110 E. 17th St., Los Angeles, Calif.
Sponge Rubber Products Co., 247 Derby Place, Shelton, Conn. "Spongex." (Door.)
Standard Products Co., 2130 W. 110th St., Cleveland 2, Ohio.
Union Welt Corp., 466 W. Superior St., Chicago 10, Ill. "Sealtite."
United States Rubber Co., Rockefeller Center, 1230 Ave. of the Americas, New York 20, N. Y.
Van Cleef Bros., Inc., Woodlawn Ave., 77th to 78th Sts., Chicago 19, Ill. "Dutch Brand Rub'r-Shim."
Western Felt Works, 4029 Ogden Ave., Chicago 23, Ill.

NO OTHER SINGLE ITEM COSTS SO LITTLE AND SAVES SO MUCH!

Most Hoof Governors cost no more than a couple of tanks of gas! Yet Fleet records show savings of from 20% to 50% on tires, brakes, clutches, rear ends, motor re-building and other maintenance expense! Want to see some proof? Write us for the full Hoof Story!

No other Governor has Hoof's patented Cantilever Spring that means more accurate speed control, simplified construction and longer life!

HOOF PRODUCTS CO.
6543 S. Laramie Ave.
Chicago 38, Ill.

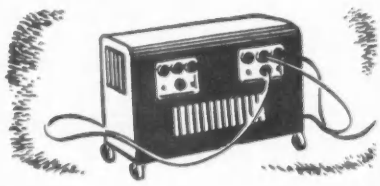
HOOF key and seal type GOVERNORS

WEIGHTS, Wheel Balancing

Bean Div. Food Machinery & Chemical Corp., John, 1305 S. Cedar St., Lansing 4, Mich.
Bear Mfg. Co., 21st St. & Fifth Ave., Rock Island, Ill.
Bee-Line Mfg. Co., P. O. Box 569, Davenport, Iowa.
Chief Alinement Corp., 440 13th St., Rock Island, Ill.
Loney Co., Harley C., 16883 Wyoming Ave., Detroit 21, Mich. "L & H."
Mid-Western Auto Parts, 824 E. Elm St., Kokomo, Ind. "Snugl Fad-A-Way."
National Wheel & Parts Mfg. Co., 1808 S. Michigan Ave., Chicago 16, Ill.
Powell Mfg. Co., 813 Burlington Ave., Logansport, Ind. "Excel."
Prior Products, Inc., 4828 Racell St., Dallas, Tex.
Turner Mfg. Co., 404 W. Superior St., Kokomo, Ind. "Snap-Tite," "D & T."
Wabash Auto Parts, Inc., Carroll St., Wabash, Ind.
Weaver Mfg. Co., 2177 S. Ninth St., Springfield, Ill.
Wohlert Corp., 700 E. Grand River Ave., Lansing 6, Mich.

WELDERS and EQUIPMENT, Electric (Arc)

Air Reduction Sales Co., Lincoln Bldg., 60 E. 42nd St., New York 17, N. Y. "Airco."
Allen Electric & Equipment Co., 2101 N. Pitcher St., Kalamazoo 13F, Mich. (Also combination spot and arc.)
Allis-Chalmers Mfg. Co., Milwaukee 1, Wis.
Allmand Bros. Mfg. Co., 1315 Fourth Ave., Holdredge, Neb.
Berg-Gibson Mfg. Co., 817 E. 17th St., Kansas City 8, Mo. "B & G."
Borm Mfg. Co., 23 N. Union St., Elgin, Ill. "Elgin."
Electric Arc Inc., 152 Jelliff Ave., Newark, N. J. "Alternarc," "Dualarc," "Electroweld," "Nu-Arc."
Ergolyte Mfg. Co., 3627 N. Lawrence St., Philadelphia 40, Pa.
Foster Mfg. Co., 287 Delaware Ave., Buffalo 2, N. Y.
General Electric Co., 1 River Rd., Schenectady 5, N. Y.
Good-All Electric Mfg. Co., 112 W. First St., Ogallala, Neb.



Hammett Electric Mfg. Co., 706 E. 18th St., Kansas City 8, Mo. (Portable.)
Harnischfeger Corp., 4400 W. National Ave., Milwaukee, Wis. "P & H."
Hobart Bros. Co., Hobart Square, Troy, Ohio.
Kern Co., John A., 224 N. Loomis St., Chicago 7, Ill.
Lee Co., K. O., Congress at First Ave., S. E., Aberdeen, S. D. "Knock Out."
Lincoln Electric Co., Coit Rd. & Kirby Ave., Cleveland, Ohio. "Shield-Arc," "Fleet Arc" Manual; "Lincolnweld," "Electric Tornado." (Automatic.)
Marquette Mfg. Co., 307 E. Hennepin Ave., Minneapolis 14, Minn.
Mercury Battery Charger Co., 719 Wyandotte St., Kansas City 6, Mo. (Also combination bonder and arc welder.)
Mid-States Equipment Corp., 2429 S. Michigan Ave., Chicago 16, Ill. "Mid-States Metal Zipper." (Also "Missing Link" attachments for arc welders.)
Miller Electric Mfg. Co., 718 S. Bounds St., Appleton, Wis.

239-50

LISTEN! it's GRIFFIN!

It's Griffin for stop lamps every time. You'll know why when you see the powerful, big 7⅛″ stopper—the strongest, longest-lasting stop lamp ever developed for fleets. It has red or amber lens, outline letters on black non-peel kiln fired panel. Black enamel finish, stainless steel door, 6-8 volt bulb, 32 c.p. (Model No. 200, bracket mounting—200-F, flush mounting.)

You'll see other outstanding stop and rear lamps—a full and rugged line—through your Griffin jobber.

It's Griffin, too, for rear-view mirrors of clearest vision, heaviest construction. There's the walloping big Model No. 400 shown here, 3⅝″ x 7½″, with mirror set on heavy cork gasket, with silver plate sealed against deterioration. There's a smartly-built round mirror head, 5″ (also 6″) in diameter, in either black enamel or aluminum vehicle finish. Both are supplied with telescopic mirror supporting arm to absorb vibration.

See your Griffin jobber—now!

THE GRIFFIN LAMP COMPANY · HAMILTON, OHIO

WITH BUILT-IN XX SAFETY FACTORS

GRIFFIN
AUTOMOTIVE SAFETY LIGHTING

1653-1

WELDERS and EQUIPMENT, Electric (Arc)—cont.

National Cylinder Gas Co., 840 N. Michigan Ave., Chicago 11, Ill. "Sureweld."
Nelson Stud Welding Div. of Morton Gregory Corp., Toledo Ave. & E. 28th St., Lorain, Ohio. "Nelweld." (Portable.)
Smith Corp., A. O., 27th & Hopkins Sts., Milwaukee 1, Wis. "Smithway."
Smith Welding Equipment Corp., 2633 Fourth St., S. E., Minneapolis 14, Minn.
Superior Oxy-Acetylene Machine Co., 1102 E. High St., Hamilton, Ohio.
Trindl Products, Ltd., 17 E. 23rd St., Chicago 16, Ill. (Welding.)
US Electric Welder Corp., 1258 Dorr St., Toledo 7, Ohio.
Westinghouse Electric Corp., 306 Fourth Ave., Pittsburgh 30, Pa. "Flex-Arc."
Wilson Welder & Metals, Inc., 60 E. 42nd St., New York 17, N. Y.

WELDERS and EQUIPMENT, Oxy-Acetylene

Air Reduction Sales Co., Lincoln Bldg., 60 E. 42nd St., New York, N. Y. "Airco."
Black Mfg. Co., 1416 W. Baltimore St., Baltimore 23, Md. "Milburn," "Black Arrow."
Burdett Oxygen Co. of Cleveland, Inc., 3300 Lakeside Ave., Cleveland 14, Ohio. "Burdox."
Dockson Co., C. H., 3839 Wabash Ave., Detroit 8, Mich. (Regulators.)
Hobart Brothers Co., The, Hobart Square, Troy, N. Y.
Imperial Brass Mfg. Co., 1234 W. Harrison St., Chicago 7, Ill.
Linde Air Products Co., 30 E. 42nd St., New York 17, N. Y. "Oxweld," "Prest-O-Weld," "Purox."
Marquette Mfg. Co., 307 E. Hennepin Ave., Minneapolis 14, Minn. (Portable acetylene generators.)
National Cylinder Gas Co., 840 N. Michigan Ave., Chicago, Ill. "Rego."
National Cylinder Gas Co., Torchweld Equipment Div., 4700 W. 19th St., Chicago, Ill. "Torchweld."
Sight Feed Generator Co., 14 N. Tenth St., Richmond, Ind. (Acetylene generators.)
Smith Welding Equipment Corp., 2633 Fourth St., S. E., Minneapolis 14, Minn.
Superior Oxy-Acetylene Machine Co., 1102 E. High St., Hamilton, Ohio.
Tolman Mfg. Co., 19 W. Third St., (South Boston), Boston 27, Mass.
Victor Equipment Co., 844 Folsom St., San Francisco 7, Calif.

WELDING CABLE, See Cable, Welding

WELDING COMPOUNDS, See Compounds, Welding

WELDING HOSE, See Hose, Welding

WELDING RODS, See Rods, Welding

WHEEL ALIGNMENT EQUIPMENT, See Gages, Wheel and Axle Aligning

WHEEL BALANCING MACHINES, See Balancers, Wheel

WHEELS, Vehicle (Cast Metal)

Clark Equipment Co., Buchanan, Mich. (Truck and bus.)
Dayton Steel Foundry Co., 1366 Miami Chapel Rd., Dayton, Ohio. (Spoke types.)
Eastern Malleable Iron Co., 112 Bridge St., Naugatuck, Conn.
Erie Malleable Iron Co., Automotive Wheel Div., 609 W. 12th St., Erie, Pa.
Gunite Foundries Corp., 302 Peoples Ave., Rockford, Ill. (Truck.)
Kay-Brunner Steel Products, Inc., 999 Meridian Ave., Alhambra, Calif.

WHEELS, Vehicle, Disc (Steel)

Budd Co., Wheel Div., 12141 E. Charlevoix Ave., Detroit 14, Mich.
Kelsey-Hayes Wheel Co., 3600 Military Ave., Detroit 32, Mich. (Truck.)
Motor Wheel Corp., 701 E. Saginaw St., Lansing 3, Mich. "Disteel."

WHEELS, Fifth

Austin Trailer Equipment Co., 1428 Park St., Muskegon, Mich.
American Steel Foundries, Automotive Div., 400 N. Michigan Ave., Chicago 11, Ill. "A.S.F."
Austin Trailer Equipment Co., 1148 W. Western Ave., Muskegon, Mich.
Dayton Steel Foundry Co., 1366 Miami Chapel Rd., Dayton, Ohio.
Fontaine Truck Equipment Co., 3827 First Ave., N., Birmingham, Ala.

3830-66

Aeroquip

FLEXIBLE HOSE LINES

WITH DETACHABLE, REUSABLE FITTINGS

- PREVENT LEAKAGE
- ARE RESISTANT TO FIRE
- HELP REDUCE OPERATING COSTS
- ELIMINATE FAILURES DUE TO VIBRATION
- OPERATE AT —40° TO +275° F. TEMPERATURES
- FOR USE WITH HYDRAULIC FLUIDS, WATER, FUEL, LUBRICATING OILS AND MANY OTHER FLUIDS

Aeroquip for better performance, maintenance and service

Dealers and Distributors Wanted

AEROQUIP CORPORATION

JACKSON, MICHIGAN

SALES OFFICES AND WAREHOUSES: 1053 NO. HOLLYWOOD WAY, BURBANK, CALIF. 1215 SO. EAST GRAND AVE., PORTLAND 14, ORE. 2912 N. E. 28TH ST., FORT WORTH 11, TEXAS 72-74 STAFFORD STREET, TORONTO, CANADA

SALES OFFICES: 303 WAREHAM BLDG., HAGERSTOWN, MD. 1419 2ND AVE., SO., MINNEAPOLIS 4, MINN.

AEROQUIP PRODUCTS ARE FULLY PROTECTED BY PATENTS IN U. S. A. AND ABROAD

2133-1

WHEELS, Fifth—cont.

Fruehauf Trailer Co., 10940 Harper Ave., Detroit 32, Mich.
Highway Trailer Co., 421 E. Fulton St., Edgerton, Wis.

Holland Hitch Co., 430 W. 18th St., Holland, Mich.

Kay-Brunner Steel Products, Inc., 999 Meridian Ave., Alhambra, Calif.
Kingham Trailer Co., 15th & Hill Sts., Louisville, Ky. "Kingham-Universal."
Pollard Co., C. E., 14571 Schaefer Highway, Detroit 27, Mich. (Elevating hydraulic type.)
Spencer Trailer Co., Augusta, Kan. "Spencer Trail-Lite."
Weber Trailer & Mfg. Co., 1100 E. Fifth St., Los Angeles, Calif.

WHEELS, Trailer

Budd Co., Wheel Div., 12141 E. Charlevoix Ave., Detroit 14, Mich.
Clark Equipment Co., Buchanan, Mich. (Cast spoke.)
Dayton Steel Foundry Co., 1366 Miami Chapel Rd., Dayton, Ohio.
Differential Wheel Corp., 5169 Martin Ave., Detroit 10, Mich. (Differential dual.)

1653-50

Erie Malleable Iron Co. (Automotive Wheel Div.), 609 W. 12th St., Erie, Pa. (Single and dual pneumatic, malleable iron.)
French & Hecht, Div. Kelsey-Hayes Wheel Co., Third & Farnam St., Davenport, Iowa.
Geneva Metal Wheel Co., 191 Factory Row, Geneva, Ohio.
Gunite Foundries Corp., 302 Peoples Ave., Rockford, Ill. (Cast metal.)
Kelsey-Hayes Wheel Co., 3600 Military Ave., Detroit 32, Mich.
Motor Wheel Corp., 701 E. Saginaw St., Lansing 3, Mich. (Disc steel.)
Permold Co., 820 W. Liberty St., Medina, Ohio. (Aluminum.)

WINCHES, Truck

Adams Engineering Co.
American Coach & Body Co., 9503 Woodland Ave., Cleveland 4, Ohio.
American Hoist & Derrick Co., 63 S. Robert St., St. Paul 1, Minn.
Beebe Bros., 2724 Sixth Ave., S., Seattle 4, Wash. (Hand.)
Braden Winch Co., 1001 E. Admiral Blvd., Tulsa 3, Okla.
Bridgeport Chain & Mfg. Co., 1201 Crescent Ave., Bridgeport, Conn. "Round."
Cascade Mfg. Co., 2439 N. W. 29th St., Portland 10, Ore. "Ramsey."
Dorsey Trailers, Elba, Ala.
Erie Hoist Co., 2000 Holland St., Erie, Pa.
Four Wheel Drive Auto Co., Eagle Div., 414 E. Winnebago St., Appleton, Wis. "Graybar." (Sole distributors, Graybar Electric Co., Lexington Ave. & 43rd St., New York 17, N. Y.)
Fruehauf Trailer Co., 10940 Harper Ave., Detroit 32, Mich.
Gar Wood Industries, Inc., Wayne Div., Wayne, Mich. "GW."
Heil Co., 3000 W. Montana St., Milwaukee 1, Wis.
Highway Trailer Co., 421 E. Fulton St., Edgerton, Wis.
Hobbs Mfg. Co., 609 N. Main St., Fort Worth 1, Tex.
Little Giant Products, Inc., 1530 N. Adams St., Peoria 3, Ill. (Hand.)
Lufkin Foundry & Machine Co., Lufkin, Tex.
MacDonald Truck & Mfg. Div. Peterbilt Motors, Inc., 106th St. & McArthur Blvd., Oakland, Calif.
Meili-Blumberg Co., 1615 Wisconsin Ave., New Holstein, Wis. "M-B."
Round & Son, David, Broadway & Henry Rd., Cleveland 5, Ohio.
Schultz & Son, A. L., 1675 Elston Ave., Chicago 22, Ill. "S & S."
Silent Hoist Winch & Crane Co., 841 63rd St., Brooklyn 20, N. Y.
Six Wheels, Inc., 1550 E. 20th St., Los Angeles 11, Calif. "Maxi."
Stimmel Winch Co., 37-24 33rd St., Long Island City 1, L. I., N. Y.
Truck Engineering Corp., 1285 W. 70th St., Cleveland 2, Ohio.
Tulsa Winch Div. of Vickers, Inc., 823 E. First St., Tulsa, Okla.

WIPERS, Windshield (Air)

Marquette Metal Products Co., 1145 Galewood Drive, Cleveland 10, Ohio.
Sprague Devices, Inc., 616 W. Ninth St., Michigan City, Ind. "Air Push."
Trico Products Corp., 817 Washington St., Buffalo 3, N. Y. (For trucks and buses.)

WIPERS, Windshield (Electric)

American Bosch Corp., 3664 Main St., Springfield 7, Mass. "American Bosch Neverstall."
Auto-Lite Battery Corp., Owen-Dyneto Div., 1920 Park St., Syracuse, N. Y. "Dyneto."
E. A. Laboratories, Inc., 696 Myrtle Ave., Brooklyn, N. Y.
Electric Service Mfg. Co., 17th & Cambria St., Philadelphia 32, Pa. (For bus and trolley.)
Signal Mfg. Co., 69 Bennett St., Lynn, Mass.
Stewart-Warner Corp., 1826 Diversey Parkway, Chicago, Ill.
Storm-King Products Co., 148-08 95th Ave., Jamaica 4, N. Y.

WIPERS, Windshield (Vacuum)

Trico Products Corp., 817 Washington St., Buffalo 3, N. Y.

WIRE, IGNITION, STARTING AND LIGHTING. See Cable, Ignition, Starting and Lighting

WRENCHES, Portable Electric

Black & Decker Mfg. Co., Towson 4, Md.
Cleco Div. of Reed Roller Bit Co., 5125 Clinton Drive, Houston 1, Tex.
Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y.

maximum flexibility . . . maximum payload maximum operating efficiency

Sterling

MILWAUKEE, WIS.

Job engineered, and sturdy in construction, Sterling heavy duty motor trucks are adaptable to any type of operation. For economy and steady, continuous hauling of heavy loads, choose Sterling, a famous name in motor trucks since 1907.

- Chain Drive (4 x 2 and 6 x 4)
- Enclosed Drive (4 x 2 and 6 x 4)
- Multi Wheel Drive (4 x 4 and 6 x 6) ● Gasoline ● Diesel

BRANCHES AND DEALERS IN PRINCIPAL CITIES

3811-20
3811-1

WRENCHES, Portable Electric—cont.

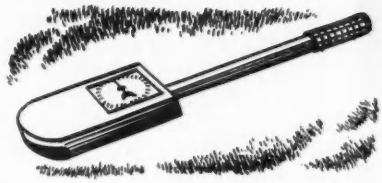
Millers Falls Co., Greenfield, Mass.
Van Dorn Electric Tools, Towson 4, Md.

WRENCHES, Portable Pneumatic

Aro Equipment Corp., Bryan, Ohio.
Buckeye Tools Corp., 29 W. Apple St., Dayton 1, Ohio.
Chicago Pneumatic Tool Co., 6 E. 44th St., New York, N. Y.
Independent Pneumatic Tool Co., 175 State St., Aurora, Ill. "Thor."
Ingersoll-Rand Co., 11 Broadway, New York 4, N. Y.
Keller Tool Co., 1333 Fulton St., Grand Haven, Mich.

WRENCHES, Torque

Advertising Distributors, Inc., 5046 Shaw Ave., St. Louis 10, Mo. "A.D.I."
Airdraulics Engineering Co., Burtis Ave., New Canaan, Conn. "Trutorq."
Ammco Tools, Inc., 2100 Commonwealth Ave., North Chicago, Ill.
Apco Mossberg Co., Lamb St., Attleboro, Mass. "Mossberg."
Blackhawk Mfg. Co., 5325 W. Rogers St., Milwaukee 1, Wis. "Blackhawk Torkflash."
Bonney Forge & Tool Works, Tilghman & Meadow Sts., Allentown, Pa.
C. & G. Wheel Puller Co., Scio, N. Y. (Preset.)
Cedar Rapids Engineering Co., 902 N. 17th St., Cedar Rapids, Iowa. "Kwik-Way."
Duro Metal Products Co., 2649 N. Kildare Ave., Chicago 39, Ill. "Duro Chrome."
Hastings Mfg. Co., 375 E. Mill St., Hastings, Mich.
Herbrand Div., Bingham-Herbrand Corp., Lake & Stone Sts., Fremont, Ohio. "Herbrand," "Van Chrome."
J O Mfg. Co., 8442 Otis St., South Gate, Cal. "Joel," "Joex," "Jomi," "Jote."
Kennedy Service Tools Co., P. O. Box 33, Mogadore, Ohio.
New Britain Machine Co., 140 Chestnut St., New Britain, Conn.
Plomb Tool Co., 2209 Santa Fe Ave., Los Angeles, Cal.
Reasor Mfg. Co., 13th & Indiana Ave., St. Charles, Ill.
Richmont, Inc., 2810 E. 11th St., Los Angeles 23, Calif. "Livermont Torq-Stop."
Scandia Mfg. Co., Belleville Turnpike, Arlington, N. J. "Bro-Torq."
Snap-On Tools Corp., 8046 28th Ave., Kenosha, Wis. "Blue Point."



Sturtevant Co., P. A., Addison, Ill.
Sunnen Products Co., 7910 Manchester Ave., St. Louis 17, Mo.
Williams & Co., J. H., 400 Vulcan St., Buffalo 7, N. Y. "Measurrench."
Wilson, K. R., 215 Main St., Buffalo 3, N. Y.
Zoerman-Clark Mfg. Co., Jackson, Mich.

WRIST PINS, See Pins, Piston

THE

BIEDERMAN

TRUCK

An All-Star Truck
Constructed of All-Star Units
Doing an All-Star Job Since 1920

DEALERS: Compare the Biederman National Standard Model with any truck on the market and you will agree that it is an All-Star team in itself.

Only the most sturdily constructed units of America's leading manufacturers are built into it.

Biederman Trucks win by performance. Inquiries regarding dealership solicited.

WRITE, WIRE or PHONE

BIEDERMAN MOTORS CORPORATION
CINCINNATI 14, OHIO

SPECIALIZED PRODUCTS

BABBITT METAL

Bohn Aluminum & Brass Corp., 1400 Lafayette Bldg., Detroit 26, Mich.

COMPOUND, Windshield Sealing

Foster & Kester Co., Inc., 2601 N. Broad St., Philadelphia 32, Pa. "Sealzit."

CONNECTORS, Wire

Burndy Engineering Co., 107 Bruckner Blvd., New York 54, N. Y.

FITTINGS, Tube

Imperial Brass Mfg. Co., The, 1209 W. Harrison St., Chicago 7, Ill.

INSULATORS, Spark Plug

Frenchtown Porcelain Co., Muirhead Ave., Trenton, N. J.

LUGS, Solderless

Burndy Engineering Co., 107 Bruckner Blvd., New York 54, N. Y.

MATERIALS, Body Repair (Non-Metallic)

Hollingshead Corp., R. M., Camden 2, N. J. "Met-L-it" (Cold process repair compound and material.)

PUMPS, Oil

Wohlert Corp., Lansing 5, Mich.

SAND (for Traction Sanders)

Keystone Granite Quarry, Old Zionsville, Pa.

SIGNALS, Low Air Pressure (Brakes)

Monroe Standard, Inc., Galion, Ohio, "Wig-Wag" (Visual).

SOLDERS

Bohn Aluminum & Brass Corp., 1400 Lafayette Bldg., Detroit 26, Mich.

SOLVENT, Ice

Normandy Chemical Corp., 9th & Western, Muskegon, Mich. "Saif."

TERMINALS, Wire

Burndy Engineering Co., 107 Bruckner Blvd., New York 54, N. Y.

TOOLS, Thread Restoring

Buckingham Mfg. Co., 75-77 Travis St., Binghamton, N. Y.

TOOLS, Tube Working

Imperial Brass Mfg. Co., The, 1209 W. Harrison St., Chicago 7, Ill.

TOOLS, Wire Stamping

Burndy Engineering Co., 107 Bruckner Blvd., New York 54, N. Y.

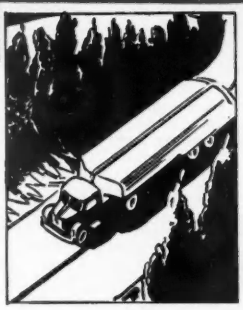
VALVE SPRINGS

Bohn Aluminum & Brass Corp., 1400 Lafayette Bldg., Detroit 26, Mich.

3811-50

TRUCK TRAILERS EQUIPPED WITH
HOLLAND APGAR *Safety* FIFTH WHEELS
CUT YOUR COSTS — REDUCE ACCIDENT RATES

GREATER SAFETY ON CURVES 4-point suspension of the trailer load gives greater stability on curves when your fleet is equipped with Holland-Apgar safety fifth wheels.



HIGHER AVERAGE ROAD SPEED — Ability to take curves at higher safe speeds and more responsive handling of the load gets your units over the road faster.

GREATER MANEUVERABILITY CUTS ACCIDENTS — With the Holland-Apgar safety fifth wheel the *load follows the tractor* because the center of gravity is moved toward the inside of the curve. Drivers can *safely* avoid accidents, get over curves and hills *faster, safer.*

AVOID LOADING TIP-OVER — With Holland-Apgar safety fifth wheels loading tip-overs are practically eliminated. Distortion and strain that damage trailers are eliminated by 4-point suspension that prevents twist. Jackknife stop permits turn of only 4° beyond 90° preventing bump damage to cab.

In demonstration after demonstration operators and drivers are amazed at the new concept of safety made possible by the Holland-Apgar Fifth Wheel. Greater stability reduces tip-overs, permits faster *safe* speeds, higher average speed. Your unit has almost the maneuverability of a passenger auto. Your drivers can swerve *safety,* avoid accidents, and your driver feels safer, too.

SAVE LIVES - SAVE YOUR EQUIPMENT

The new Holland-Apgar safety Fifth Wheel now has nearly ten million road miles of proven performance. As accident rates go down, insurance costs are lowered. Equipment lasts longer and requires less maintenance. If you didn't see the Holland-Apgar demonstrations during the ATA convention, be sure to see the one that will be held in your area shortly! You've got to see it in action to believe its great advantages.

SIMPLE NEW PRINCIPLE

The lower fifth wheel is mounted on a rotary disc and the rocking shaft is offset 4 inches back of the pivot. On any turn the center of gravity of the load is moved to the inside — every curve is "self banking." The use of the rotary also provides constant 4-point support to the trailer, regardless of tractor position. Tip-overs on curves or at loading dock are further minimized by this extra stability of the load.

WRITE FOR FREE FOLDER

GET THE FACTS

HOLLAND HITCH COMPANY
Holland, Michigan

Please send FREE Folder.

Name_____

Address_____

City_____ State_____

HOLLAND HITCH COMPANY
HOLLAND, MICHIGAN

3830-1

CCJ Newscast . . .

Continued from Page 35

department at 172 West Berks St., Philadelphia 22, Pa. **Manbee Equipment Co.**, Chicago, Ill., has been purchased by **Bear Manufacturing Co.** of Rock Island, Ill. "Pay Dirt," a new **Purolator Products, Inc.**, sales training film, has been released for use in the field and copies are available at the firm's office in Newark N. J. Upwards of 150 persons will be employed at the new automobile battery plant of the **Electric Auto-Lite Co.** in the industrial section southeast of Los Angeles, Cal.

1949 Domestic Truck Factory Sales by Gross Vehicle Weights*

	5000 lb. and less	5001-10,000	10,001-14,000	14,001-16,000	16,001-19,500	19,501-26,000	Over 26,000	Total
January	31,918	25,697	8,171	17,451	4,047	2,708	1,290	91,282
February	32,799	25,543	8,155	16,057	2,855	1,839	1,292	88,540
March	39,769	28,082	8,790	17,838	2,364	1,654	1,428	99,925
April	40,568	25,068	7,440	13,909	1,926	1,590	1,307	91,808
May	33,805	19,931	4,779	12,159	2,294	1,327	1,223	75,518
June	43,655	23,572	5,242	12,031	2,110	1,417	1,147	89,174
July	41,166	24,358	6,000	9,857	1,729	1,411	906	85,427
August	47,312	23,101	5,924	8,874	1,941	1,654	1,183	89,989
Eight Mos., 1949	310,992	195,352	54,501	108,176	19,266	13,600	9,776	711,663
Eight Mos., 1948	297,410	151,307	107,793	152,457	44,675	30,054	13,704	797,400

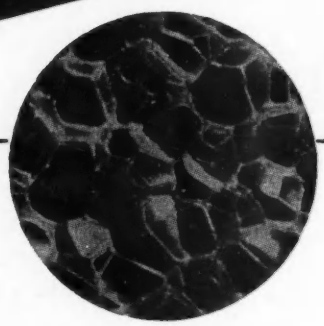
*—Data from Automobile Manufacturers Association.

EMERY DYKSTRA DIES

Emery Dykstra, vice president of Henry Vroom, Inc., large Detroit trucking company, died at the age of 53. He was also vice president of the Michigan Trucking Association.

RUBATEX INSULATION HARDBOARD

The Ideal Low Temperature Insulation for Transportation Equipment



MICROPHOTOGRAPH of a section of RUBATEX Insulation Hardboard shows the dense structure of individually sealed cells which give this product its exceptional insulating properties.

- **K factor 0.21**
- **Zero moisture pick-up**
- **No vapor barrier needed**

This product is an expanded cellular rubber in board form. Its many exceptional characteristics make it outstanding as a low temperature insulating material.

Light weight—4½ lbs. per cubic foot
Excellent structural strength
Compressive strength—60 lbs. per square inch
Rot, vermin and termite proof
Exceptionally long life
Does not crumble or settle
Easy to handle
Standard board sizes—17½" x 35½" and 35½" x 35½"
Thicknesses—1", 1½", 2", 3"

RUBATEX Soft Cellular Rubber for Gaskets

Expanded rubber. Nitrogen filled, sealed cells. Zero moisture absorption. Resists oxidation. Low thermal conductivity. Can be die cut or molded.

Additional information and catalogs available upon request

Great American Industries, Inc. RUBATEX DIVISION, BEDFORD, VA.

URGE AUTO EXCISE TAX CUT

The National Highway Users Conference states it is urgent that any reduction in federal excise taxes include those levied against the motor vehicle. Following a meeting in New York of the NHUC board of governors and administrative committee, a statement was issued saying some 600 highway user organizations had signed petitions urging repeal of the temporary, emergency federal automotive excise taxes which amount to 1.25 billions annually on gasoline, oil, new cars and trucks, tires and tubes, and parts and accessories.

Said the statement in part: "The emergencies that permitted these unfair taxes to go into the law are now long over. It is time these taxes were repealed. They must be considered in any plan of tax reduction."

1949 Truck Trailer Production*

	August	Eight Months
Vans:		
Insulated and refrigerated	275	1,631
Furniture / All other closed top	1,098	8,340
Open top	109	896
Total Vans	1,482	10,867
Platforms:		
With cattle and stake racks	106	554
With grain bodies	39	201
All other	369	3,435
Total Platforms	514	4,190
Tanks:		
Petroleum / All other	132	1,257
Total Tanks	132	1,257
Pole and Logging:		
Single Axle	41	496
Tandem Axle	23	466
Total	64	962
Low-bed haulers	102	986
Dump trailers	33	269
All other trailers	177	1,355
Total Complete Trailers	2,504	19,885
Trailer Chassis	97	939
Total Trailers and Chassis	2,601	20,824

* Industry Division, Bureau of the Census.

EDWARDS HAS ALUMINUM TRAILER

The Edwards Body and Trailer Co., Division of Edwards Iron Works, Inc., of South Bend, Ind., has in production a new aluminum trailer with a double-strength frame. It is available with single or tandem axle having Edwards Free End Spring Assembly.

END

Please resume your reading on P. 38

1430-50

READY NOW!! this NEW 6-Point Clean Engine Program to Cut Fleet Operating Costs!

Put This Program Into Effect In YOUR FLEET!

MAKE A RECORD THAT YOU CAN BE REALLY PROUD OF

Your DeLuxe Man is Ready to Show You How!

This program was developed out in the fleets... by men like yourself... working with DeLuxe Specialists, who for years have been helping fleet operators win the prize for low-cost maintenance!*

Here's what DELUXE has for YOU that's really NEW!!! The NEW DELUXE-BALDWIN CARTRIDGES that make conventional-type filters perform MORE NEARLY LIKE famous DeLuxe Full-Depth SPRING-AND-CONE CARTRIDGES! The NEW DELUXE SEDI-SUMP... a marvelous INVENTION that equips EVERY **DELUXE FILTER WITH A REMOVABLE SUMP! The NEW ECONOMICAL CLEAN-UP CARTRIDGES for cleaning up neglected, sludged-up engines.

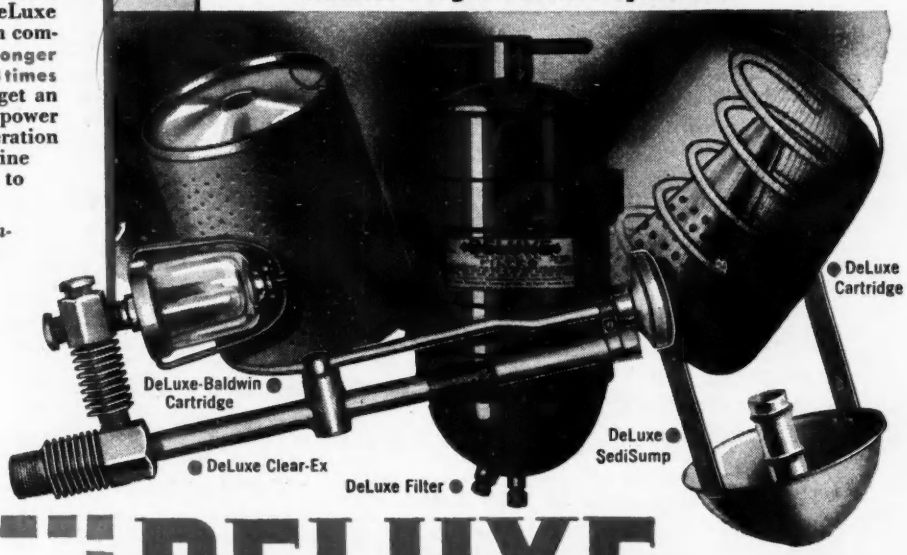
Your DeLuxe Man brings you all the facts...will arrange a clinic meeting...demonstrate cartridge diagnosis...and introduce to you the BRAND-NEW CLEAR-EX—the latest DeLuxe development, which cleans the combustion charge just as the DeLuxe Filter cleanses the oil! As a result of clean combustion you get **longer valve-life . . . longer ring-life... longer bearing-life... up to 2-3 times longer spark-plug life!** In addition, you get an immediately-noticeable increase in pep and power plus extra fuel-mileage. Actual fleet-operation records prove that Clear-Ex steps up engine performance . . . ask your DeLuxe Man to show you the proof!

**80% of all annual Bus Transportation Maintenance Awards have been given to DeLuxe-equipped fleets!*

***Models JC, CU, CUL and CS Base Types.*

here's what you get:

1. **PROVEN WAY TO INCREASE CARTRIDGE LIFE by preventing sludged-up engines!**
2. **EASIER WAY TO CHECK UP ON ENGINE CONDITIONS through CARTRIDGE DIAGNOSIS!**
3. **NEW WAY TO GET STEPPED-UP PERFORMANCE from ALL MAKES OF FILTERS!**
4. **NEW MONEY-SAVING WAY TO CLEAN UP neglected, sludged-up engines!**
5. **NEW TIME-SAVING WAY TO CLEAN OUT FILTER SUMP. Ends danger of neglect that contaminates clean oil!**
6. **SENSATIONALLY NEW WAY TO GET CLEANER COMBUSTION! More power... more mileage! Cleaner Plugs! Valves! Cylinders!**



Act Now... **to get all the facts!** mail the coupon **TODAY!**

DELUXE PRODUCTS CORP.
1406 Lake Street, LaPorte, Indiana

Gentlemen: Without cost or obligation to me, please have your DeLuxe Man see me as soon as possible to give me the full Profit-Facts about the DELUXE CLEAN ENGINE PROGRAM.

(Write name and address in margin)

DELUXE Oil Filter

DOES MORE THAN STRAIN OIL . . . MORE THAN FILTER OIL
ACTUALLY CLEANSES OIL

Technically-trained DeLuxe Representatives can tell you more than just the price of a cartridge! Their thorough knowledge of oil filtration and of the scientific DeLuxe Clean Engine Program is at your service.

R-3346

2241-1

ATA CONVENTION HIGHLIGHTS

RUSHED from Boston, just as this issue went to press, came a few advanced highlights of the 16th Annual Convention of the American Trucking Associations, Inc. More than 2500 delegates and truck operators from all parts of the country were on hand for the six day affair, Oct. 21-26. It was obvious that the greater part of the convention would be confined to business sessions of the various ATA conferences and special committees. A more complete report, particularly concerning some important resolutions will be contained in the next issue of COMMERCIAL CAR JOURNAL.

Private Carriers

Nine of the ten conferences met in rooms of the Hotel Statler to discuss problems peculiar to organized carriers. Jos. E. Keller, Private Carrier Conference attorney, discussed legal problems of interest to this group. He reviewed regulations governing leasing of equipment, the Lenoir Chair case, the Burlington Mills investigation, and brought the fleetmen up to date on revised ICC safety regulations. Edward Gogolin, general manager, Pennsylvania Motor Truck Assn., discussed ways and means of increasing private carrier activity in ATA state trucking associations, in ATA proper and in the ATA Private Carrier Conference.

Other subjects of interest were a talk on the Role of the Motor Truck in Distribution, by F. B. Hufnagel, Jr., of Sun Oil Co., and a paper on What Private Carriers Should Know About Federal Wage-Hour Laws, presented by Ben R. Miller, director, industrial relations, ATA.

Regular Common Carriers

The Regular Common Carrier Group under the Chairmanship of Leland James covered the interesting and controversial subject of Industry Owned Insurance Companies. Sam A. Simpson, of Transport Insurance Exchange outlined his views on the subject and led a question and answer period.

E. R. Jelsma, of the Senate Interstate Commerce Committee, discussed national transportation problems of interest to fleetmen. He emphasized that our present national transportation policy was both sound and comprehensive, but that there was a difference of opinion on the administration and implimentation of this policy. Our national policy is couched in terms too broad to be of effective value, he said, and more explicit provisions in the terms of the Act would be necessary to effectuate the aims.

The subject of Terminal Studies received particular attention, interest of the group indicated that a manual on terminal operations, specifications and procedures would be forthcoming when interested companies underwrite the cost of further studies and the cost of publication. W. W. Callan, of Central Freight Lines, showed how a study of his freight handling methods by expert consultants had saved time and money for his company. Other fleetmen with similar terminal problems agreed that a scientific study of methods and facilities had more than paid for the cost of the analysis. It is expected that the new manual under consideration will be valuable to a great many companies.

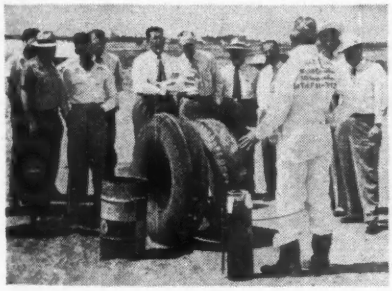
Tank Truck Carriers

Highlight of the National Tank Truck Carriers Conference was the presentation of the Tank Truck Trailmobile Trophy, an award for outstanding contributions in the field of highway safety and service, to the Dan Dugan Transport Co., of Sioux Falls, S. D. T.T.T.C. Safety Awards were also presented by the Honorable John L. Rogers, Commissioner, ICC. Other agenda included reports of the Conference's activities in such fields as safety, tariff rules and regulations, truck leasing regulations, alcohol, carrier-owned insurance companies and rail rate adjustments.

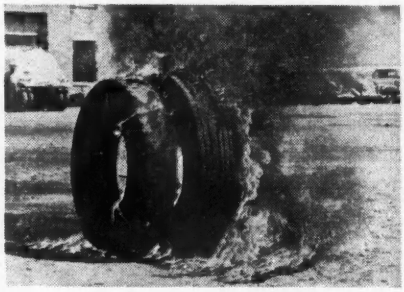
(TURN TO PAGE 260, PLEASE)

1-14-6.5. 1945-50

Tire Fire Mastered in Dramatic Test



1 The Fyr-Fyter INSTANT is explained to an audience of truck line owners and ICC officials.



2 Two tires, previously soaked in gasoline, are ignited, then allowed to burn for fifteen minutes.

3 The Fyr-Fyter INSTANT is brought into action. Timers record fire out in ninety seconds.

4 Two minutes from the time of attack tires are cool enough to touch. No sign of re-ignition.

Remarkable New Fire Extinguisher for Trucks Gives Finer Protection against Truck and Cargo Fires

The famous Fyr-Fyter INSTANT extinguisher (with its patented Karbaloy charge) is now available for truck applications . . . made possible by a special design to withstand extreme vibration.

This means that trucks and cargos can now have the extra protection that only the Fyr-Fyter INSTANT extinguisher and Karbaloy offer, namely:

1. Extra fast action on any kind of truck or cargo fire. (Class A & B)
2. Operation in below-zero weather.
3. Retardation of re-ignition.
4. No annual re-charge.

There is a tremendous story to the INSTANT and you should have the facts. Write today, without obligation, for descriptive bulletins.

Write to: THE FYR-FYTER CO., 256 Crane Street, Dayton, Ohio

Fyr-Fyter INSTANT *Extinguisher for Trucks*

Approved by the Underwriters' and Factory Mutual Laboratories

2730-1

2030-33

FAMOUS EXAMPLES OF **ARMORED CONSTRUCTION**

1. U. S. ARMY "GENERAL PATTON" TANK

2. AMERICAN HEAVY DUTY UTILITY SNATCH BLOCK

9302

Dropped, slammed and battered on the job, blocks and sheaves have to be tough! *Armored Construction* makes AMERICAN Heavy Duty Utility Snatch Blocks serve better, last longer. Rigged quickly, too . . . just lift the hook and lay in the rope. In three sheave sizes, ten-ton capacity, handling up to 7/8" wire rope. Sold by distributors everywhere. Made by AMERICAN HOIST AND DERRICK Co., St. Paul 1, Minn.

ALSO MAKERS OF THE AMERICAN HANDIWINCH AND GENUINE CROSBY CLIPS

ASK FOR **AMERICAN BLOCKS AND SHEAVES**

Preferred BY THE MEN WHO DO THE WASHING

LACO FOUNTAIN BRUSHES

because They Give an Easier, Faster and Better Job

Bejin Cartage Company, one of Detroit's largest fleet operators standardizes on Laco Fountain Brushes.

● Laco Fountain Brushes cut fleet cleaning costs—for it washes better, faster, and is easier on the men doing the job. Brush is made for heavy duty use. All parts are made of aluminum alloy—strong but lightweight—a real time and money saver. Write for prices and name of nearest dealer.

LAITNER BRUSH CO.
2000 Brooklyn Ave., Detroit 26, Mich.
BRUSH MANUFACTURERS SINCE 1855

ATA Convention . . .

Continued from page 258

Roadeo Champions

The National Truck Roadeo championship finals held at Boston Garden Saturday, brought forth the following champions in the straight truck class; S. L. Moon, Georgia Highway Express, Inc., was declared winner, with John W. Preston, of Geo. F. Alger Co., Detroit, taking second place; and Tommy Munro, of Munro Oil & Paint Co., pulling down third place. Moon drove a Dodge truck; Preston used a Reo, and Munro piloted a Ford.

In the tractor semi-trailer class Ben Winterberger, of Dohn Transfer Co., St. Louis, came in first with a Reo truck. Forrest G. Garrison, of Melvin Truck Co., Peoria, Ill., took second place with a Dodge; and Russell LaForge, of W. J. Holloran Trucking Co., Providence, R. I., took third place with a Reo.

Full trailer finals, held in conjunction with the Arizona Transport Association Convention, recently named John H. Caster, of Pierce Auto Freight Lines, Medford, Ore., national champion in that class.

Shop Excellence Awards

Harry E. English, first vice-president of ATA, presented awards to three truck lines selected as winners in separate classes in the first annual Transport Topics—Truck Shop Excellence Contest. Awards went to Hemingway Brothers Interstate Trucking Co., New Bedford, Mass., winner in the for-hire carrier class for companies operating more than 100 vehicles. Meadows Transfer Co., Des Moines, Iowa, was winner in the for hire class for companies operating less than 100 vehicles. Alton Box Board Co., Alton, Ill., was winner in the private carrier class.

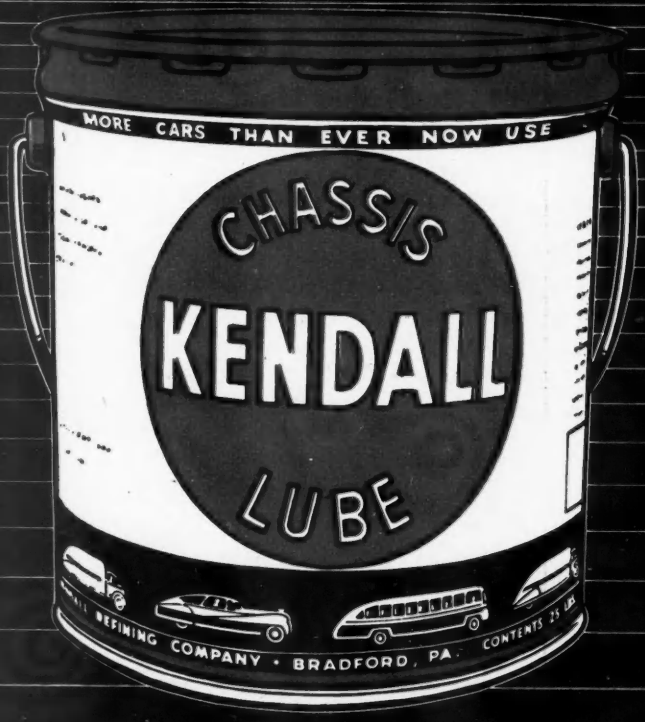
Enterprise and Finance

At the first general luncheon W. W. Wachtel, of Calvert Distilleries Corp., warned that America's No. 1 selling job is selling the American free enterprise system to the people to combat repulsive foreign ideologies. He noted that in the current battle between Communism and Americanism the greatest challenge to business and education is in explaining to the public how our economic system works. Calling for closer cooperation between business and education, he listed four things badly missing in education for business: correlation, sales education—marketing functions, articulation and imagination.

Predicting continued expansion of the trucking industry, Edward Hopkinson, Jr., of Drexel and Co., Philadelphia, said at the second general luncheon that he does not expect the cost of equipment financing by motor carriers will reach the record low levels now being enjoyed by the railroads, but he proposed group action by truck line representatives as a possible means of obtaining public financing.

2741-33

Lower ton mile costs prove THE ECONOMY OF



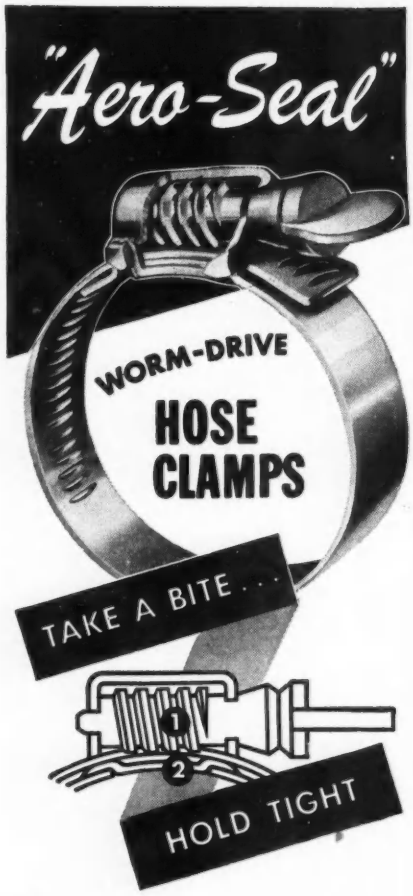
QUALITY

Compounded with a base of heavy bodied oils refined from 100% Bradford, Pennsylvania Crude. Won't wash out. Won't throw out. Stays on the job and does a job of chassis protection. Regular, heavy duty and winter grades.

Kendall Refining Company, Bradford, Penna.

PRODUCTS OF AN INDEPENDENT REFINER • SOLD BY INDEPENDENT DISTRIBUTORS

1288-1



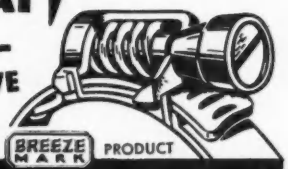
❶ At least 3 hardened steel threads always engaged in worm drive action in slotted band.

Clamp unscrews easily but will never work loose.

❷ Worm threads cannot touch or damage hose—curved saddle assures uniform sealing pressure around complete circumference.

- Long Life—use again and again
- Integral construction — no parts to lose
- Corrosion resistant—cadmium plated or stainless steel
- Two types—screwdriver slot or thumb grip

WRITE TODAY for FREE SAMPLE



ANOTHER BREEZE MARK PRODUCT

"Aero-Seal"®
HOSE CLAMPS

BREEZE CORPORATIONS, INC.
Aircraft Standard Parts Division
45 South Sixth Street, Newark, N. J.

New Products . . .

Continued from Page 52

P163. Clutch Facing

"S-W" facing, a new clutch facing made of asbestos-metallic yarns is said to reduce variations in torque under a wide range of temperature and load conditions; to reduce chatter; to provide longer, trouble-free life and improved "cushion" clutch action in service. It has a low rate of wear. Johns-Manville, New York, N. Y.

P164. Timing Light

A new high tension timing light features a magnet which holds the light in place on the fender while the engine runs and prevents the light from falling and breaking while the mechanic is making distributor point adjustments.

The oil and grease-proof tenite housing and silver-domed Polystyrene reflector will not become brittle or crack at low temperatures. A removable neon bulb is used. High dielectric constant prevents shock in handling. E. Edelmann & Co., Chicago, Ill.

P165. Governor Jack

These governor-controlled jacks with 25-ton capacity have an improved screw action with a positive stop at the base of the jacks which prevents over-extension at any time.

A bronze key way keeps jacks from twisting out from under loads. Each stroke of the raise is firmly held by a triple-pawl clutch, and the governor controls lowering speeds.

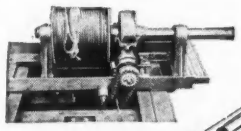
The governor-controlled jacks are furnished in heights ranging from 26 to 36 in. and with raises from 13½ to 23½ in. Duff-Norton Mfg. Co., Pittsburgh, Pa.

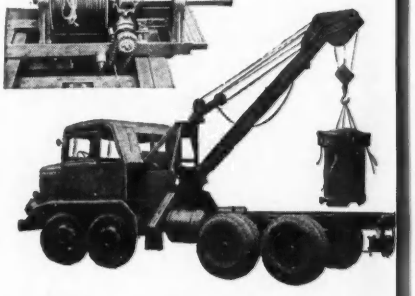
END

Please resume your reading on P. 57

Industry Has Specified
SILENT HOIST Equipment
• Since 1918 •

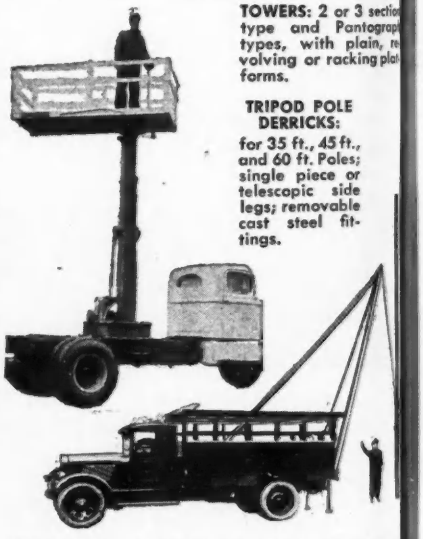
KRANE KAR Swing Boom Mobile Crane: for materials-handling . . . lifting, transporting, positioning, gasoline or Diesel, 1½, 2½, 5 and 10 ton capacities, 9 to 37 ft. booms (or telescopic booms), solid or pneumatic tires. Self-stabilizing without jacks or outriggers; unobstructed vision; fast, flexible, safe, easy to operate.





WINCHES: Capstans; Single and Double Drum, Jaw Clutch, Keyed and Friction Clutch Winches. 2,000 to 50,000 lb. Capacities.

SWING BOOM CRANES: Truck: Motor Power Operated; high capacity; takes up only a small space. For handling transformers, cable reels, lamp posts, trees, poles, manhole castings, etc. 9 to 31 ft. booms; one to 10 ton capacities.



TOWERS: 2 or 3 section type and Pantograph types, with plain, revolving or racking platforms.

TRIPOD POLE DERRICKS: for 35 ft., 45 ft., and 60 ft. Poles; single piece or telescopic side legs; removable cast steel fittings.

USERS: AT&T; N. Y. Tel. Co.; T.V.A.; Consolidated Edison Co.; W.U.; Municipalities throughout America.

WRITE FOR CATALOGS:

No. 79—KRANE KAR No. 70—Truck Equipment

THE ORIGINAL SWING BOOM MOBILE CRANE WITH FRONT-WHEEL DRIVE AND REAR-WHEEL STEER
2½, 5, AND 10 TON CAPACITIES
KRANE KAR
TRADE MARK REGISTERED
SILENT HOIST & CRANE CO.
852 63rd ST., BROOKLYN 20, NEW YORK

782-33

4211-33

THIS BOOKLET TELLS YOU

WHY TRU-STOP is safer — Page 3

HOW TRU-STOP cools itself — Page 5

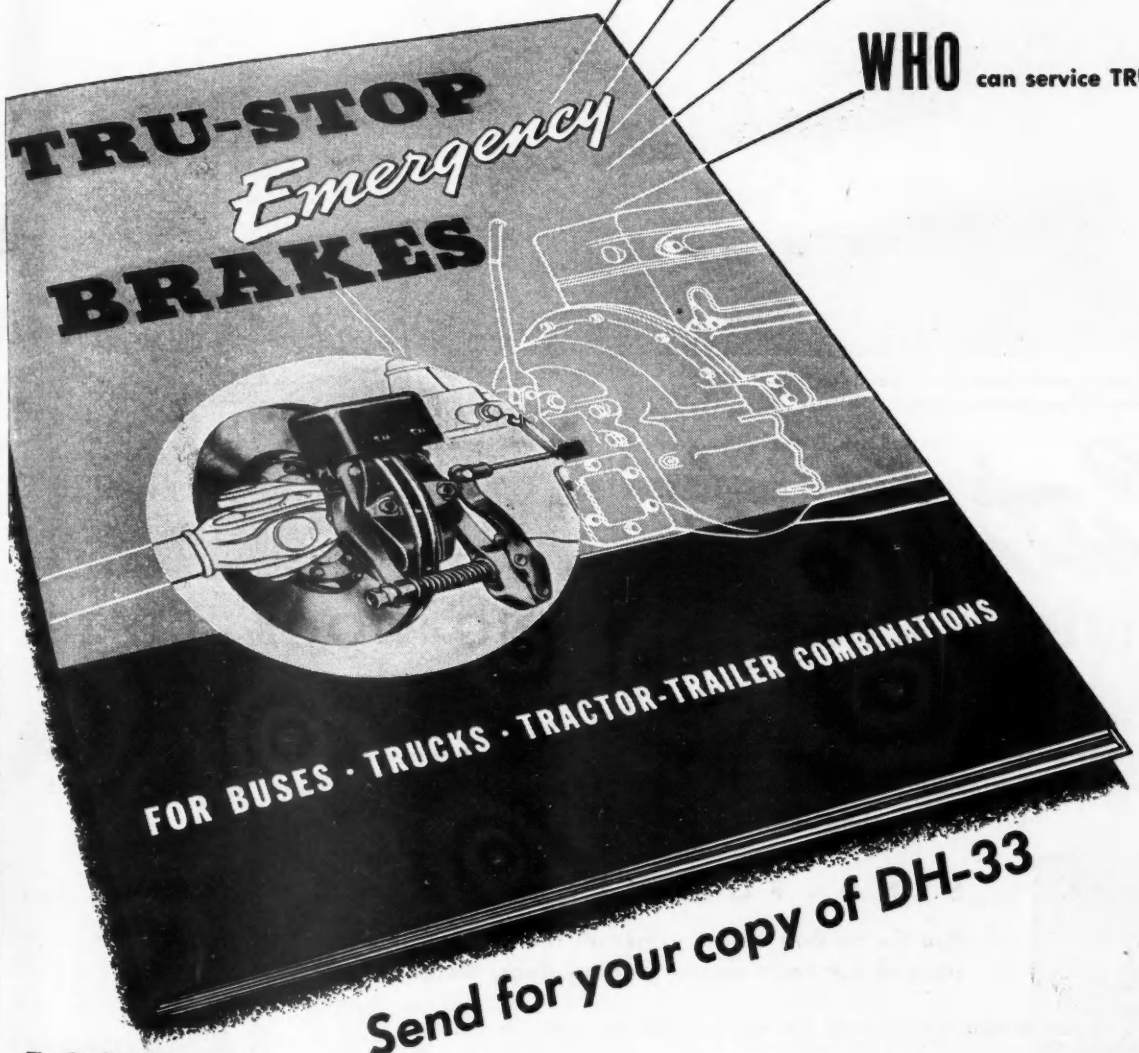
WHERE TRU-STOP saves money — Page 7

WHEN TRU-STOP is a "must" — Page 10

WHO can service TRU-STOP — Page 11

If you buy, specify, sell or operate trucks or buses, you will want the latest information on TRU-STOP Emergency Brakes.

Here it is. Here are the essential facts in easy-to-read form—without ballyhoo or high pressure selling. If you do not have your copy, send for it today. Write our Detroit office.



Send for your copy of DH-33

ACCO

6-235 General Motors Bldg., Detroit 2 • 1119 Santa Fe Avenue, Los Angeles 21 • Bridgeport, Conn.

AUTOMOTIVE AND AIRCRAFT DIVISION
AMERICAN CHAIN & CABLE

TRADE MARK

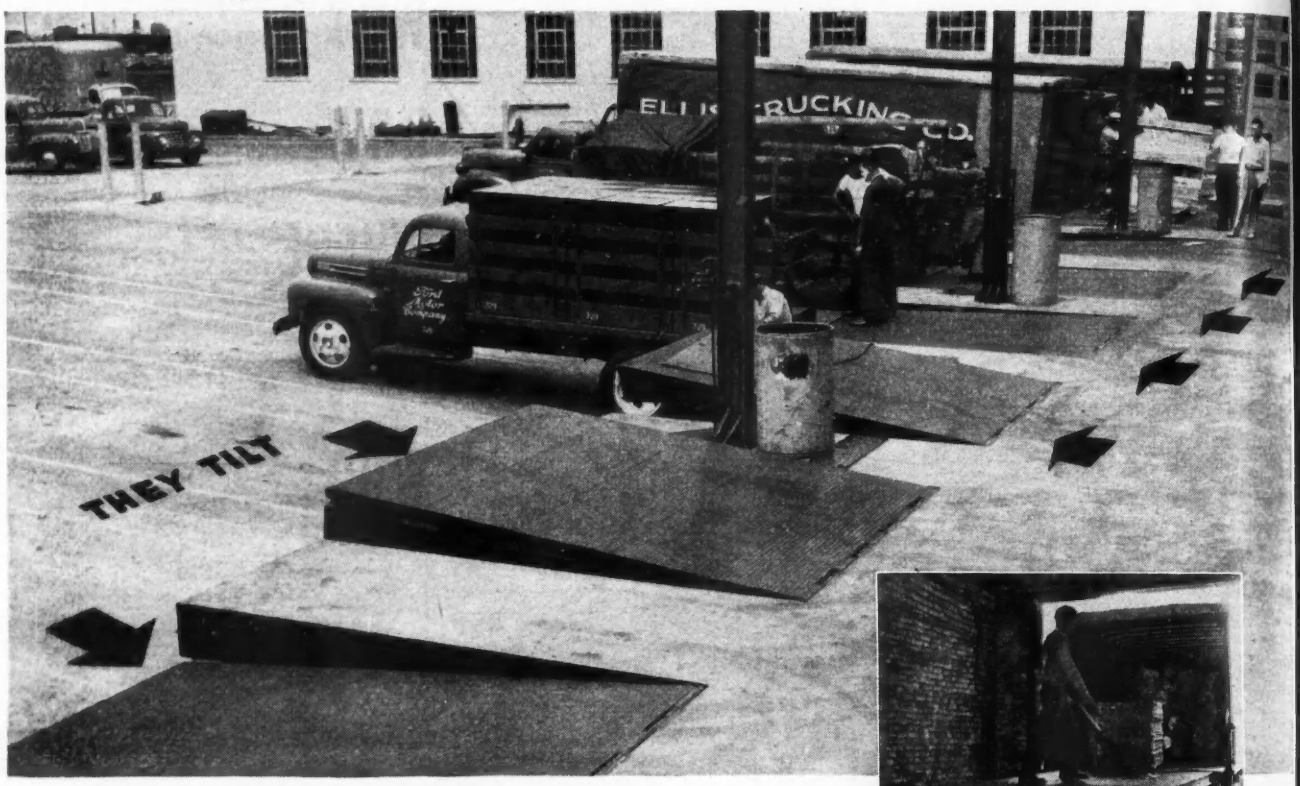
In Business for Your Safety

TRU-STOP *Emergency* BRAKES

1-1806

1944-1

"LOADING TIME CUT IN HALF



Tilting Loading Dock Ramps Tilt to Meet Truck Body. Operated by Hydraulic Lifts.

Standard Wayne Platform Lift Itself Becomes Loading Dock.

Cut Costs

WITH WAYNE LOADING DOCK LIFTS

YOU CAN save time and money with Wayne Hydraulic Leveling Ramps to adjust the level of the loading dock to the truck height. Material on skids can be directly transported into the truck body over a level path. A variance of as much as 20 inches in the height of truck bodies may be instantly adjusted by merely turning a valve. Users say: "Cuts loading time in half." . . "As good as doubling dock facilities."

SEND FOR ILLUSTRATED FOLDER

Use the coupon below to get all the facts on this new plan to cut costs at the loading dock. No obligation.

THE WAYNE PUMP COMPANY, FORT WAYNE 4, INDIANA
503 Tecumseh Street

Please send folder on time-saving Wayne Loading Dock Lifts and give us some idea of the cost.

NAME _____

ADDRESS _____

CITY _____ STATE _____

for your protection

NATIONWIDE SERVICE

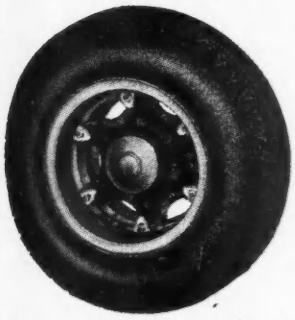
INDUSTRIAL AIR COMPRESSORS • HOSE REELS • BULK PUMPS • POWER WASHERS

2031-1

FLEET OPERATORS EVERYWHERE REPORT OUTSTANDING PERFORMANCE

WITH DAYTON PRODUCTS

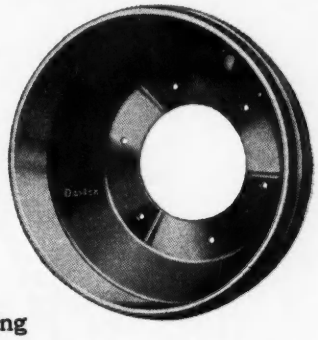
The "know how" acquired during forty-one years of producing top quality products for trucks and trailers is incorporated in every unit shipped from The Dayton Steel Foundry. It is not surprising, but nevertheless gratifying, to have Fleet Operators speak so highly of Dayton products.



DAYTON Spoke-Type Cast Steel Wheels

The fanning action of the spokes on Dayton Cast Steel Wheels causes them to run *much cooler*. The spokes create air currents and direct these currents against brake drums and inner walls of the inside tires. Dayton Wheels are so strong they never wear out in service. It costs less for service on Daytons than any other wheel.

DAYTON Time-Proven Brake Drums

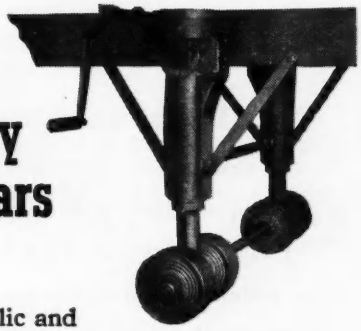


Prolonged study of flexing stresses and "heat checks" by our metallurgical engineers, together with countless tests in actual service have resulted in the time-proven Dayton Brake Drums of today that stand up under extremely heavy duty service and keep their roundness in spite of high temperatures.

DAYTON Improved, Stronger Fifth Wheels

Dayton Fifth Wheels, such as the Model FWH, have all the road-proven features so long associated with the trade mark they bear. Only one operation is necessary in the simple locking device. Oversize bushings are extra large for extra wear. Better lubrication is assured by pressure fittings on jaw pins, rocker pins and base.

DAYTON Heavy-Duty Landing Gears



Made in both hydraulic and mechanical types, Dayton Landing Gears are helping fleet operators everywhere. The Hydraulic Pump incorporates speed of operation and sufficient pressure for maximum load. Retraction of this gear is automatic and requires no effort by the operator. Dayton Landing Gears are thoroughly dependable.

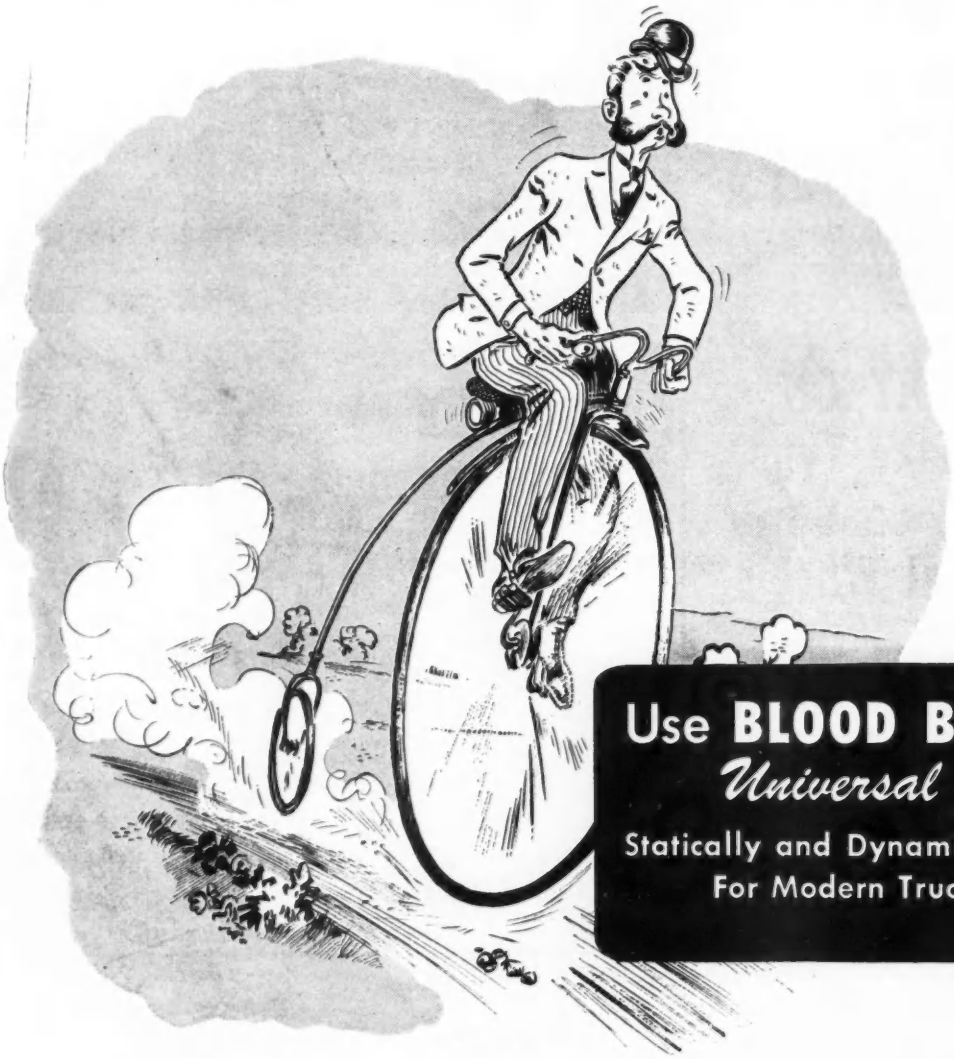
THE DAYTON STEEL FOUNDRY CO.

DAYTON 1, OHIO

Dayton Steel Products are serviced by Distributor Members of The National Wheel and Rim Association.

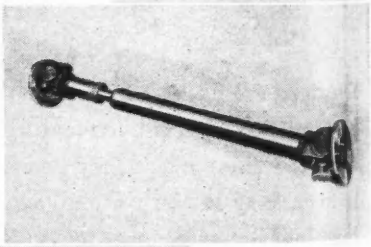
38 20-1

How to Eliminate Vibration at High Speeds



Use BLOOD BROTHERS *Universal Joints*

Statically and Dynamically Balanced
For Modern Truck Speeds



To *cope with the unexpected*, Blood Brothers Universal Joints are designed to meet every emergency in flexible power transmission. Every high speed Joint is dynamically and statically balanced — with the objective of eliminating vibration in truck propeller shafts. Blood Brothers offer a wide selection of Universal Joints to meet every need — high or low speeds, shock or continuous loads, long propeller shafts or close coupled Universal Joints. A few of the Blood Brothers units are shown herewith. Let us help you engineer your flexible power problems.

Four typical "N" Series Universal Joints—statically and dynamically balanced for high speed.

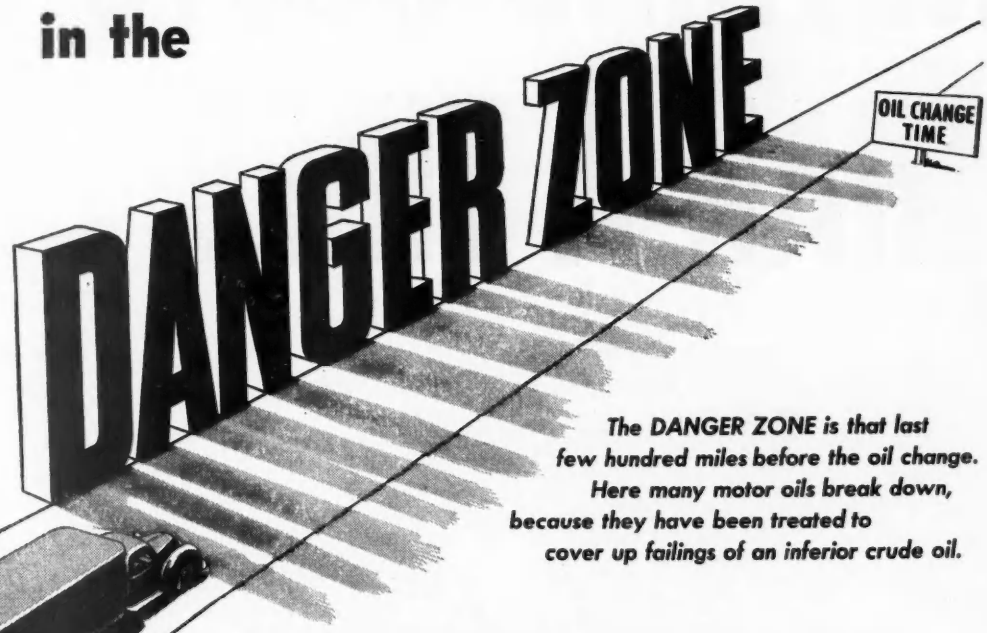
BLOOD BROTHERS MACHINE COMPANY

Division of Standard Steel Spring Co.

Allegan, Mich. Chicago Offices: 122 So. Michigan Ave.

2123-1

How Valvoline Keeps Your Motors Extra Safe in the



The DANGER ZONE is that last few hundred miles before the oil change. Here many motor oils break down, because they have been treated to cover up failings of an inferior crude oil.

VALVOLINE MOTOR OIL

Gives Full Protection in the DANGER ZONE

Valvoline is made from the world's finest, toughest, most durable crude oil—100% Pennsylvania. It keeps *every one* of its protective qualities — right through the Danger Zone.

Valvoline Increases Motor Life Up to 20% Because—

1. Valvoline keeps its body throughout the *Danger Zone* — stands up under extreme heat and pressure. It rates a *natural* Viscosity Index of over 100 — without artificial improvers.
2. Valvoline resists chemical effects of hot gases and other trying conditions in your motors. Its strength of body and other protective factors come from the superfine crude.
3. Valvoline keeps your motors clean. The added cleaning ingredient stays on the job throughout the Danger Zone—because the oil itself has highest resistance to chemical change.
4. Valvoline has the world's longest record of successful service to American fleets — in every type of unit — every kind of operation. Valvoline will keep *your* units on the job — at lower cost per mile.

FREE to Valvoline Users
Valuable Laboratory Service

Crankcase drainings analyzed — with suggestions on correcting mechanical and operating conditions of your units—for greater oil economy and engine safety.

ASK YOUR VALVOLINE MAN

FREEDOM-VALVOLINE OIL COMPANY
Freedom, Pennsylvania

New York, Toronto, Pittsburgh, Jacksonville, Atlanta, Detroit, Cincinnati, Chicago, Los Angeles, San Francisco, Portland, Seattle, Vancouver, B. C.

1288-1

NOTHING COSTS MORE THAN A TIRED DRIVER

...and Nothing Contributes More to Driver Fatigue than Poor Seating

Ordinary seats punish drivers with thousands of jolts, jars and rebounds every day. Resulting fatigue ruins schedules, piles up repair costs and skyrockets insurance rates. That is why more new trucks are being equipped with Bostrom hydraulic seats. It's the only truck seat that really absorbs shocks. Get positive proof—write for free folder *"12 Eye Openers Concerning Truck Seats."*

Factory Installed at Nominal Cost

Bostrom hydraulic seats are now available as standard equipment at no extra cost, or as optional equipment at slightly higher than regular seat cost, on the following makes of trucks:

- GMC
- Diamond T
- Federal
- Reo
- Hendrickson
- Peterbuilt
- Walter
- Ward La France
- FWD
- Dart
- Oshkosh
- Coleman

BOSTROM

BOSTROM MFG. COMPANY

133 West Oregon Street • Milwaukee 4, Wisconsin

3832-1

At the added cost of one good lunch

TANK UNITS BUILT BY GUNDERSON BROTHERS ENGINEERING CORPORATION, PORTLAND, OREGON

—weight was reduced 1375 lbs.

—payload capacity increased 220 gallons

To be exact, it cost only $3.43 more to build the tanks of this truck and trailer unit lighter with U·S·S Cor-Ten. By using 12 gage Cor-Ten in place of 10 gage mild steel, weight was reduced from 6087 to 4812 lbs. The mild steel cost $309.35, the U·S·S Cor-Ten cost $312.78.

Thus for only $3.43 more, 220 more gallons can be carried by this unit. Figuring hauling costs low, at only ½ cent a gallon, this means a saving of $1.10 per trip. The weight saved here by Cor-Ten will pay for the total cost of the tanks in just about nine months, and that's figuring on only one trip per day. Quite a sizeable return on a $3.43 investment.

So no wonder we say—*if you want to cut costs, cut weight* . . . and if you want to cut weight at *lowest* cost, build with U·S·S Cor-Ten.

Leading builders everywhere have used this superior high strength steel for almost 14 years. At little or no increase in cost they can give you equipment that is much more efficient —that carries more gallons because it drags around less dead weight and that lasts longer and costs less for repairs and maintenance. For remember, U·S·S Cor-Ten is not only stronger, tougher and more wear resistant than plain steel but has 4 to 6 times greater resistance to atmospheric corrosion.

Our engineers will gladly show you how you can apply Cor-Ten to make your equipment more profitable. You'll be surprised how little more it costs than heavy, money-wasting construction.

AMERICAN STEEL & WIRE COMPANY, GENERAL OFFICES: CLEVELAND, OHIO · CARNEGIE-ILLINOIS STEEL CORPORATION, PITTSBURGH & CHICAGO
COLUMBIA STEEL COMPANY, SAN FRANCISCO · NATIONAL TUBE COMPANY, PITTSBURGH · TENNESSEE COAL, IRON & RAILROAD COMPANY, BIRMINGHAM
UNITED STATES STEEL SUPPLY COMPANY, WAREHOUSE DISTRIBUTORS, COAST-TO-COAST · UNITED STATES STEEL EXPORT COMPANY, NEW YORK

USS

U·S·S HIGH STRENGTH STEELS

U·S·S COR-TEN · U·S·S MAN-TEN · U·S·S MANGANESE-NICKEL-COPPER

9-513

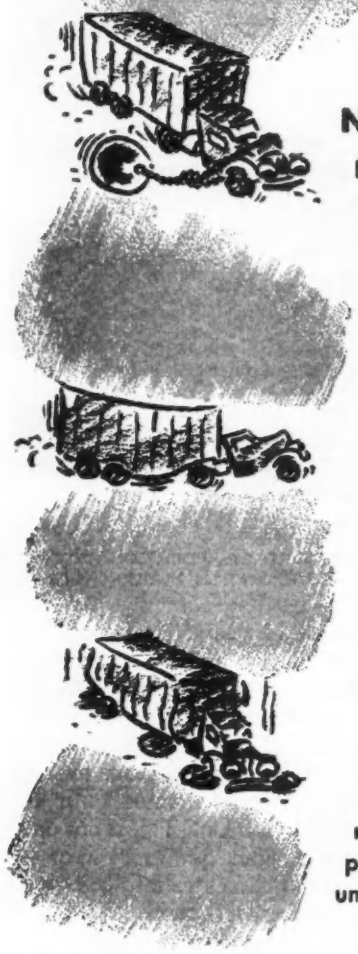
UNITED STATES STEEL

1-4198 813-1

guard against these...

HIGHWAY ROBBERS

BROWN HEAVY DUTY HIGHWAY TRANSPORTATION EQUIPMENT PROTECTS YOU AGAINST PROFIT LOSSES



PROFIT ENEMY

NO. 1—deadweight

Excessive structural weight in rolling stock is robbing operators of much needed payload. Most often, this useless weight makes the difference between *profit* and *loss*.

NO. 2—improper weight distribution

Many transportation executives are still operating equipment not designed to meet today's new state laws on axle load limitations. Full advantage is not being taken of permissible train length. Poor design is an invisible thief.

NO. 3—excessive maintenance and breakdown

Delayed shipments, interrupted schedules, continuous maintenance and money spent on parts — these are the penalties for operating outmoded or unsuitable equipment.

DEFENSE

BROWN aluminum construction

Brown engineers and expert metallurgists bring you an *entirely new* construction—full strength . . . but in light weight alloys that change useless weight into profitable payload.

BROWN principle of axle loading

Here's *new* design for equipment built from the trucker's point of view . . . Shorter wheel base, Fifth wheel ahead of axle center line, front tractor axle under engine, *plus*, new engineering that is revolutionizing the highway transportation industry.

BROWN 20th century construction

The greatest asset that comes with Brown Equipment is—*Security*. For, no other comparable equipment will give you more faithful service over years and years of operation. You owe it to yourself to get all the facts *now*.

BROWN SOLVES HAULING PROBLEMS BETTER BECAUSE WE MAKE BOTH

TRACTORS and TRAILERS

get the facts on MODERN heavy duty highway equipment

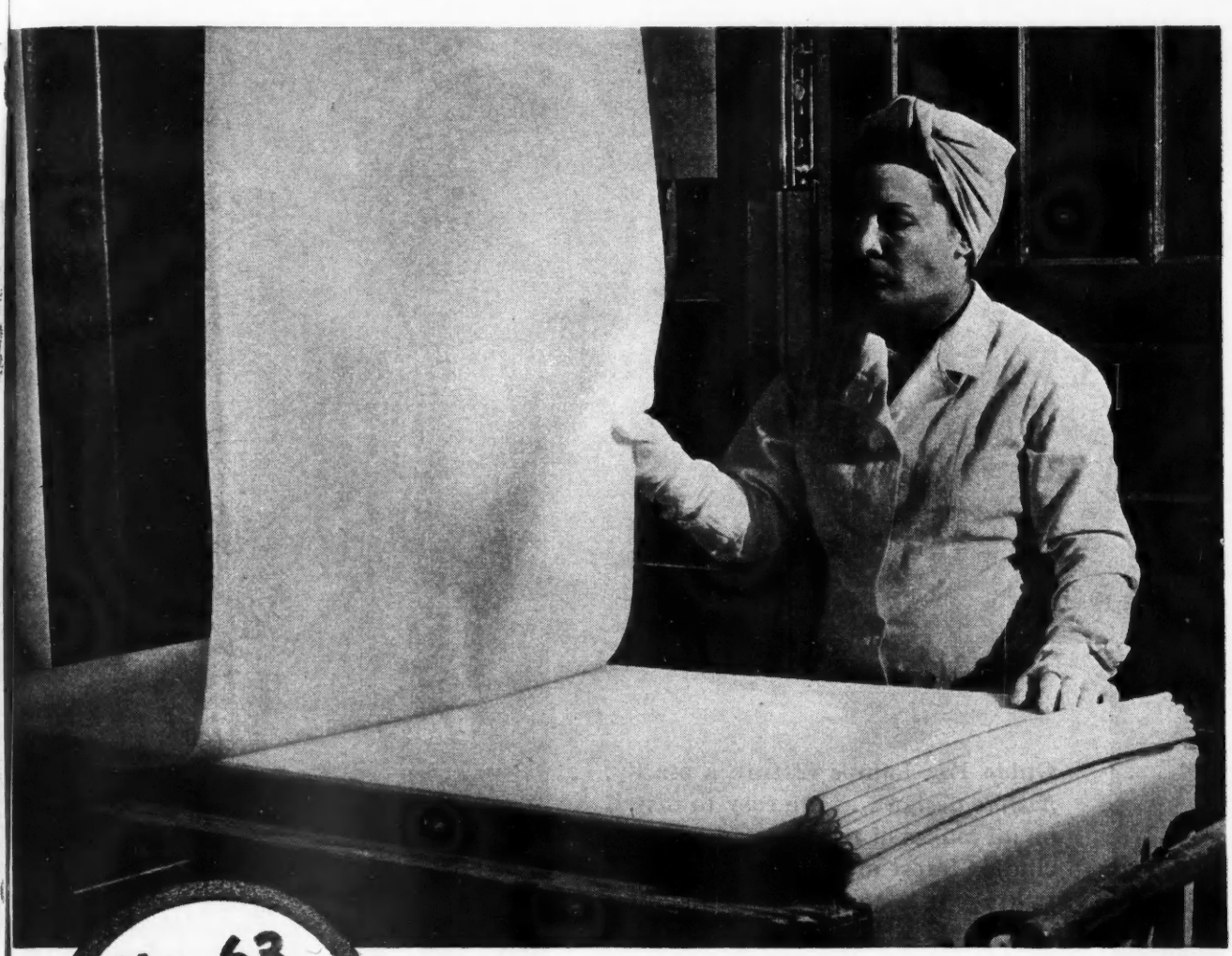
WRITE TODAY FOR LITERATURE

Brown EQUIPMENT AND MANUFACTURING CO.

MANUFACTURERS OF HIGHWAY EQUIPMENT • GEN. OFFICES: 1775 BROADWAY, NEW YORK 19, N. Y.

PLANTS: Charlotte, N. C. • Taunton, Mass. • BRANCHES: Springfield, Mass. • Syracuse, N. Y. • Baltimore, Md. • Charlotte, N. C.

3814-1



No. 63 OK

ONE OF *142 Quality Checks*

The quality of any safety glass is directly dependent on the plastic laminate in it. So, in our Check No. 63, we see to it that the temperature and humidity are exactly right when the freshly-dried plastic laminate goes to the cutting room.

This is only *one* of our 142 Quality Checks and Controls, all of which are equally important to you, because they give L·O·F Safety Glass:

1. Better heat stability
2. Better light stability
3. Better strength for safety
4. Better adhesion, glass to plastic

That's why L·O·F Hi-Test is the best Safety Plate Glass you can get—anywhere. Libbey·Owens·Ford Glass Company, 56119 Nicholas Building, Toledo 3, Ohio.

NO FINER GLASS THAN
LIBBEY·OWENS·FORD

HI-TEST L O F SAFETY PLATE

500-1

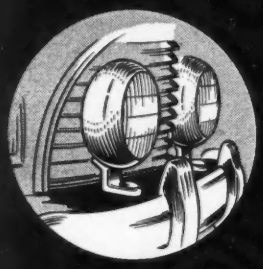
Guide FOG LAMPS for all makes of trucks and buses

Guide Fog Lamps feature a sturdy, *flexible* design . . . are easy to install on all makes of trucks and buses, including latest models. They are built to "take it"—give improved visibility that makes them safety "musts" under adverse weather conditions. Guide Fog Lamps come packaged in pairs, complete with fused switch, wiring and interchangeable mounting for rapid attachment to splash pan, bumper bracket or fender. Guide Fog Lamps are *universal* lamps—universally liked by bus and truck drivers throughout the nation.

UNITED SERVICE MOTORS

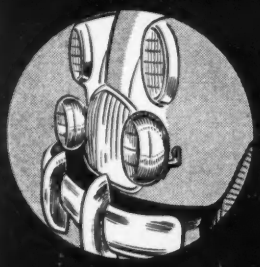
GUIDE LAMP—A UNITED MOTORS LINE
Available Everywhere Through
UNITED MOTORS DISTRIBUTORS

EASY TO INSTALL



SPLASH PAN
Bracket bolted direct to pan.

BUMPER BRACKET
For those cars having no splash pan or for rigid mounting through the pan.



FRONT FENDER
A new modern application—Mounted on front fender directly beneath the headlamps.

Guide LAMP DIVISION OF GENERAL MOTORS
ANDERSON, INDIANA

FIRST SHOWING

HAUL HEAVIER PAYLOADS FASTER . . . FOR LESS

Equip Your Truck with a HENDRICKSON TRAILING AXLE UNIT

Why A 6-WHEELER

The favorable ratio of payload to gross weight gives a greater operating range than the conventional type of vehicle—combines advantages of "light-truck" economy and "heavy-truck" load-carrying capacity.

Increased Capacity

Additional wheels, extra axle, and reinforced frame permit the 6-wheeler almost to double the payload. Therefore, maximum payload in proportion to gross weight is allowed.

Greater Safety and Stability

Better load distribution plus larger brake area make the 6-wheeler the safest type of equipment. It totally eliminates side-sway and jackknifing—assuring maneuverability and ease of handling.

Lower Tire Costs

Savings in original and maintenance tire costs are effected by use of smaller size, high production tires. Wheels "hug" the ground—minimizing wheel slippage and tire shock.

No Load Transfer

Tandem design eliminates load transfer—avoiding possibility of unequal load distribution. Constant traction effort on the drive axle is maintained, regardless of operating conditions.

Installation can be made near you

HENDRICKSON TANDEM

FLEXIBLE WITHOUT *distortion*

The Torque Rod permits complete absorption of torque, which is the tendency of the axle housings to turn backwards or forwards on their neutral axis due to starting and stopping inertia.

The Ball and Socket Joints provide the flexibility needed to prevent distortion being carried to the springs and frame.

The Equalizer Beam provides absolute equal distribution of weight between the axles, regardless of road or load conditions, and acts as a "lever" to reduce the power necessary to lift the load over road irregularities. Leverage cuts each bump 50%

Clip this Coupon for additional information

Make and Model of truck _____

Name _____

Address _____

City _____ State _____

HENDRICKSON MOTOR TRUCK CO.

8001 West 47th Street • Lyons (Chicago Suburb), Ill.

3824-1

You can't have satisfactory brake service . . . positive action, long wear and low cost . . . unless the brake linings you use are specially designed, compounded and manufactured to fit the specific needs of *your* vehicle in *your* service.

That's the way Inlite Brake Linings are made. Special compounds give the scientifically correct friction on each brake of each vehicle . . . proved by rigid tests in General Motors Laboratories and on the Proving Grounds. And Inlite is produced under constant laboratory control. The result . . . smooth, straight-line stops; no chatter or grab; positive braking in any weather; longer mileage between replacements; more stops per dollar; lowest cost to you.

Specify and use Inlite always . . . for more service, fewer lay-ups, bigger operating profits.

A General Motors Product

UNITED SERVICE MOTORS

A UNITED MOTORS LINE

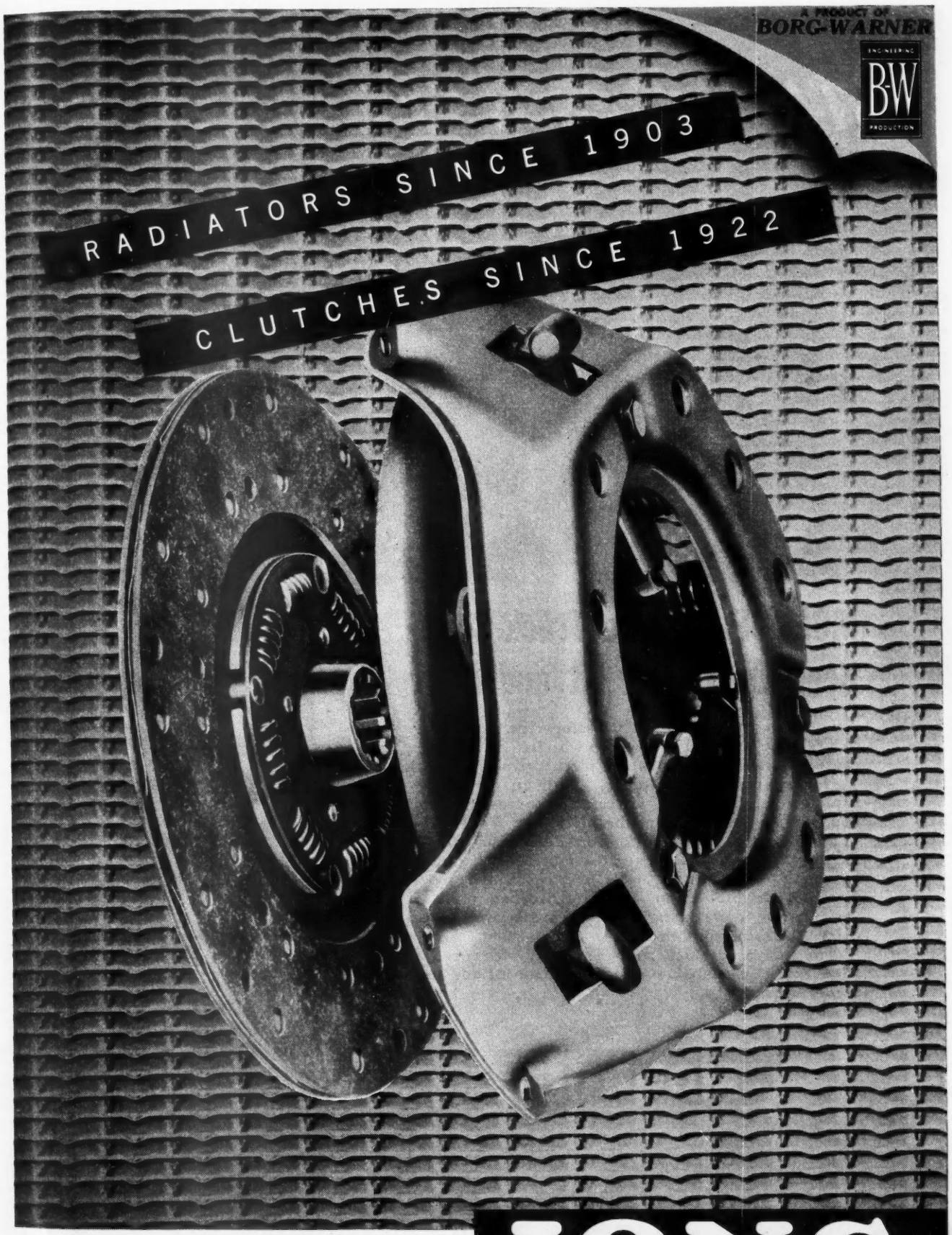
Available Everywhere Through United Motor Service Distributors

INLITE GIVES YOU

• straight-line stops • long service • low cost • General Motors quality control

INLAND MANUFACTURING DIVISION
General Motors Corporation, Dayton, Ohio

1945-1



LONG

CLUTCHES • RADIATORS • OIL COOLERS

LONG MANUFACTURING DIVISION
BORG-WARNER CORPORATION
DETROIT 12, AND WINDSOR, ONTARIO

1940-1

"Driver Dis-ease" CAN BE COSTLY!

MONROE E-Z Ride* Truck Seats Keep Operators Fit and Alert

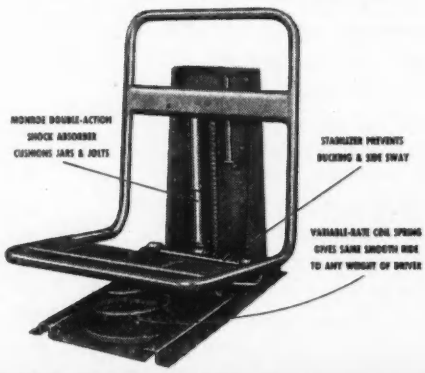
A worn-out truck driver is a bad safety risk. According to a reliable survey, 1 driver in 3 who had an accident caused by falling asleep was a truck driver.

Truck accidents are plenty costly in cargo and vehicle loss. Expensive lawsuits often result. And you, Mr. Fleet Owner, are the loser!

Monroe E-Z Ride Truck Seats keep your drivers feeling more fit—alert against accident dangers. Fatiguing, back-busting jolts are cushioned by a Monroe Double-Action Shock Absorber, plus a variable-rate coil spring that gives any weight of driver the same smooth ride.

For increased safety and efficiency, Monroe E-Z Ride Truck Seats are a sound investment for any fleet owner—for you.

*Reg. U.S. Pat. Off.



MONROE®

When shock absorbers on your cars and trucks need replacing, always specify Monroe Airplane-Type Shock Absorbers—the choice of leading automotive engineers.

MONROE AUTO EQUIPMENT CO.

Monroe, Mich. – World's Largest Maker Of Ride Control Products

3832

GLARE CAUSED THIS TRAGEDY

SPARTON POLAVISION REAR-VIEW MIRROR COULD HAVE PREVENTED IT!

Blinding glare is a constant threat to everyone who drives. Prevent costly accidents with Sparton Polavision—*the first and the only* polarized rear-view mirror.

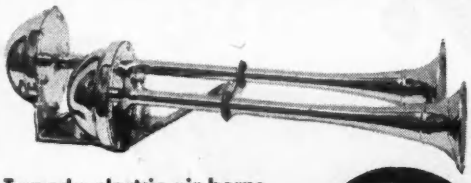
This amazing new mirror actually filters and absorbs dangerous rays. Eyestrain and fatigue—factors in many highway disasters—are eliminated.

Ordinary mirrors reflect 70% of the light. Sparton Polavision cuts this down to a safe 16.5% and still gives greater clarity than ever.

Polavision mirrors are available with hinge or body mountings. Polavision mirror heads may be purchased separately for replacement of standard mirrors.

See your supplier today about safe, eye-comforting Polavision or write directly to Sparton.

OTHER SPARTON WINNERS!

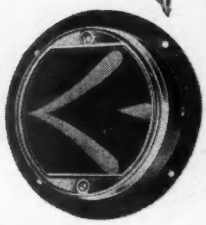


Tornado electric air horns

Brass, chromium-plated	Su-Power, all-steel
$39.75 (6-volt)	$18.50 (6-volt)
$41.50 (12-volt)	$19.50 (12-volt)

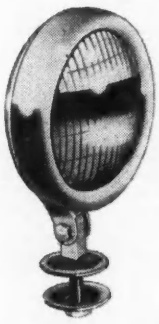
Slightly higher west of Rockies

Also complete line of standard truck horns



Directional signals

Correct signal lights for every type of vehicle. Visible from more than 125 feet. No visor required.



Safety lamps

Fog, driving, back-up and stop lamps . . . beautifully finished in chrome with universal mounting bracket.

Sparton **AUTOMOTIVE**

Division of

THE SPARKS-WITHINGTON COMPANY

JACKSON, MICHIGAN

One complete line . . . one reliable source

Makers of quality safety signals since 1899

3830-1

ORDER Weed Chains NOW!

• The first snow storm this fall may put your schedule on the skids unless you have your Weed Chains ready. It costs no more to be prepared for the first storm than for the second, third and fourth. So order now. And for the best buy in tire chains specify Weed American Bar-Reinforced. More than double the mileage of a non-reinforced chain.

ACCO

York, Pa., Chicago, Denver, Detroit, Los Angeles, New York, Philadelphia, Pittsburgh, Portland, San Francisco, Bridgeport, Conn.

AMERICAN CHAIN DIVISION
AMERICAN CHAIN & CABLE

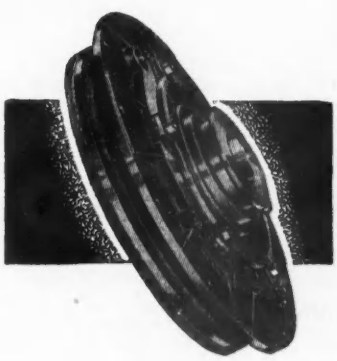
TRADE MARK

In Business for Your Safety

3830-1

LIPE TYPE ML CLUTCH

NO GRAB!
NO SHOCKS!
NO JERKS!



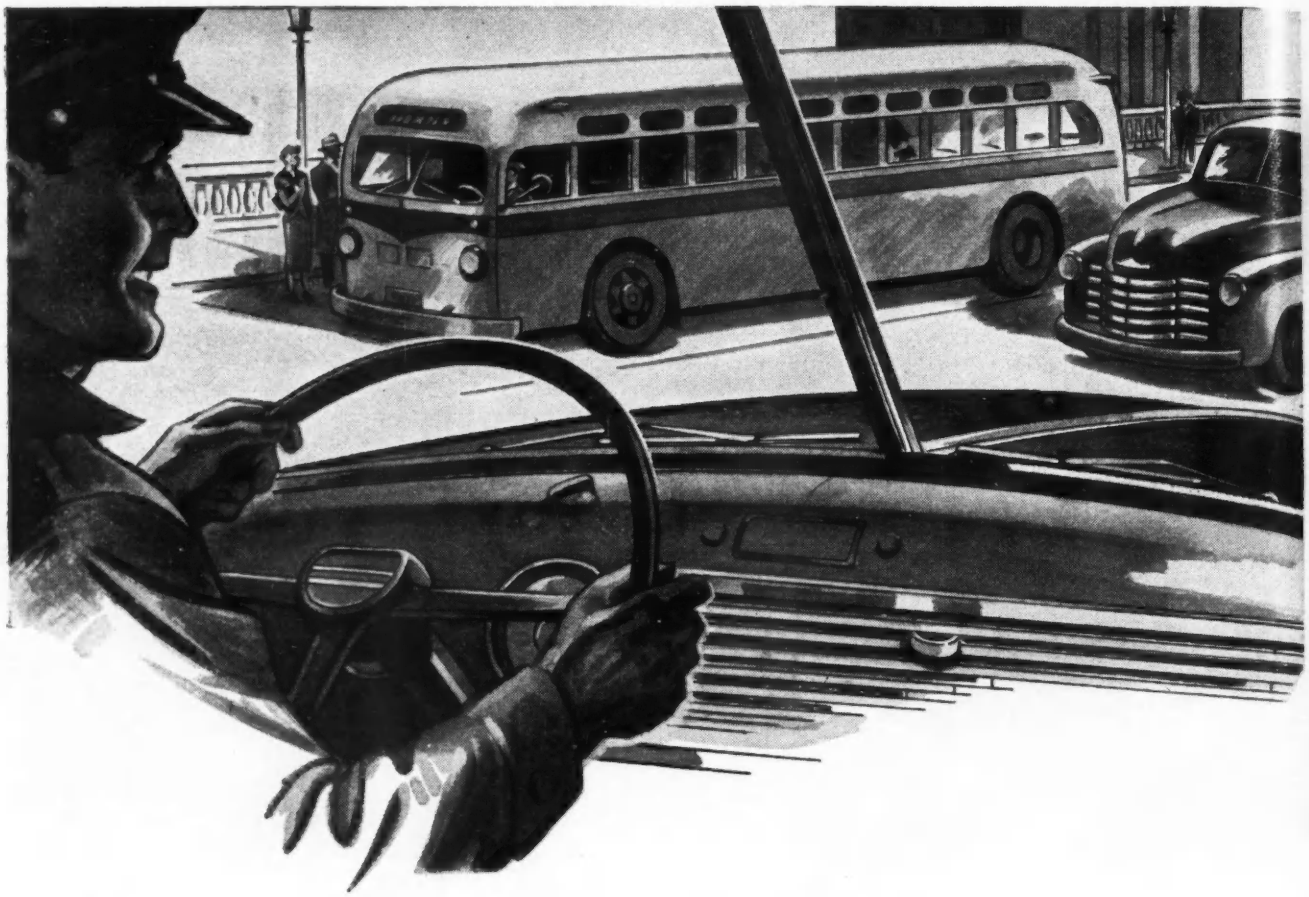
Lipe ML Clutch is designed so that it *must* engage smoothly—without grab, shocks or jerks—with maximum protection of the mechanism. Single spring operates twenty levers—all acting on pressure plate at same instant for uniform pressure, absolute parallelism, smoother engagement. For adjustment, simply remove shims from cover plate—normal torque capacity fully restored throughout life of friction material. Lipe ML Clutch adds miles and miles of life to your vehicle—slashes down-time expense for repairs and adjustments.

At Your Service—Sources of supply for Genuine Lipe Parts are available for your convenience and quick service at principal cities throughout the country, and at the Lipe-Rollway Factory. Write for full information.

LIPE ROLLWAY

Lipe-ROLLWAY CORPORATION
Syracuse 1, N. Y. Cable Address LIPEGEAR

1940-1



The man at the wheel knows . . .

DELCO-REMY
ELECTRICAL EQUIPMENT

It's a trusted name . . . Delco-Remy.

The man at the wheel knows it. He is confident that Delco-Remy electrical equipment can be depended on to do the job it's built to do . . . will help him to come through on schedule.

The man in the shop knows it even better. He knows that Delco-Remy parts and units for replacement are the same high quality products as those used for original equipment on leading trucks and buses. He specifies them for maintenance on all Delco-Remy-equipped vehicles. And he values the *completeness* of the Delco-Remy line that makes parts available for old models and new . . . through a nationwide distributing organization.

Delco-Remy parts fit right, last long, cut maintenance costs. That's important to the man at the wheel and the man in the shop . . . the man on the dock and the man in the home office.

UNITED SERVICE MOTORS

DELCO-REMY—A UNITED MOTORS LINE
Available Everywhere Through
UNITED MOTORS DISTRIBUTORS

Delco-Remy
DIVISION, GENERAL MOTORS CORPORATION
ANDERSON, INDIANA

WHEREVER WHEELS TURN OR PROPELLERS SPIN

1500-1

Ever Entertain An Idea?

ABOUT TRUCK-TRAILER OR BUS *INSULATION*

EXCEPTIONALLY LIGHT WEIGHT

VIBRATION PROOF

MOISTURE RESISTANT

VERMIN and RODENT RESISTANT

HIGH THERMAL EFFICIENCY

EASY TO APPLY

GUSTIN-BACON

ULTRALITE
INSULATION

MANUFACTURING CO.

Forming an idea is one thing. Fully exploring all its possibilities is another. When you consider Ultralite fine glass fiber material for insulating truck-trailers or buses, you'll find it possible to reduce weight with an insulation that also resists vibration, moisture, odor, vermin, rot and fire.

Today, 41 truck and bus builders are installing Gustin-Bacon Ultralite Insulation to provide their customers with every possible insulation advantage. For your next insulated vehicle consider Ultralite thoroughly.

Write for complete details and sample today.

GUSTIN-BACON MANUFACTURING CO.
Kansas City 7, Mo.
New York • Chicago • Philadelphia • San Francisco
Los Angeles • Houston • Tulsa • Fort Worth

1430-1

Bigger Value for Every Job

CHEVROLET ADVANCE-DESIGN TRUCKS

CHEVROLET

It takes a truck operator to really evaluate a truck. Yes, the man behind the wheel is the one who can best appreciate the worth of powerful yet economical performance . . . extraordinary load capacity . . . lasting quality, ruggedness and handling ease. He's the one who recognizes the advantages of new, improved features—of greater comfort and convenience for the driver. And these men in the drivers' seats—these experienced truck operators across America—know that Chevrolet trucks deliver more of the value factors they want. They know that Chevrolet trucks cost less to operate, less to maintain, and have the lowest list prices in the entire truck field. That's why they use more Chevrolet trucks than any other make! Your Chevrolet dealer will give you the facts in detail!

CHEVROLET MOTOR DIVISION, *General Motors Corporation,*
DETROIT 2, MICHIGAN

TOP-VOLUME PRODUCTION BRINGS YOU TOP-VALUE FEATURES!

Chevrolet's new 4-SPEED SYNCHRO-MESH TRANSMISSION offers quicker, quieter and easier operation. Double clutching is eliminated because the gears are always in mesh. Faster shifting maintains speed and momentum on grades. Available in series 3800 and heavier duty models.

Chevrolet's power-packed VALVE-IN-HEAD ENGINES provide improved durability and efficiency as well as the world's greatest economy for their size!

Chevrolet trucks have the famous CAB THAT "BREATHES"*! Outside air is drawn in and used air forced out! Heated in cold weather.

Chevrolet Advance-Design brings you the FLEXI-MOUNTED CAB, cushioned on rubber against road shocks, torsion and vibration.

Chevrolet's exclusive SPLINED REAR AXLE HUB CONNECTION adds greater strength and durability to heavy-duty models.

Uniweld, All-Steel Cab Construction • Large, Durable, Fully-Adjustable Seat • All-Round Visibility with Rear-Corner Windows* • Heavier Springs • Super-Strength Frames • Full-Floating Hypoid Rear Axles in the 3600 Series and Heavier Duty Models • Double-Articulated Brake Shoe Linkage • Hydrovac Power Brakes in Series 5000 and 6000 Models • Multiple Color Options.

**Heating and ventilating system and rear-corner windows with de luxe equipment optional at extra cost.*

CHOOSE CHEVROLET TRUCKS FOR TRANSPORTATION UNLIMITED!

3811-1

FRENCHTOWN INSULATORS Are Used By More Spark Plug Manufacturers Than Any Other

Here Are Some of Those Who Recognize Frenchtown Quality

American Eagle Spark Plug Co.
Auburn Spark Plug Co.
Bowers Battery & Spark Plug Co.
Duall Spark Plug Co.
F. A. Luthy Co.
G. M. Co. Manufacturing, Inc.
Herbnick Mfg. Co.
Igna Sparking Plugs, Ltd.
Jordan Electrical Mfg. Co.
Leonard Spark Plug Co., Inc.
Motoking Spark Plug Co.
Price Battery Corporation
Powercraft Corporation
Prosper C Spark Plug Co.
Ra-loy Spark Plug Co.
Superior Spark Plug Co.
Super Leader Spark Plug Co.
Superlife Products Co.
Stitt Ignition Co.
The Actus Corporation
The M & G Spark Plug Co.
The Partlow Corporation
The Reflex Spark Plug Co.
Thomas A. Edison Co., Incorporated
Trojan Products Company
Tungsten Spark Plug Mfg. Co.

FRENCHTOWN PORCELAIN CO.

Sales Office, 8 Muirhead Ave., Trenton, N. J. Factory, Frenchtown, N. J.

1556-1

Find out how much less it costs

to get an

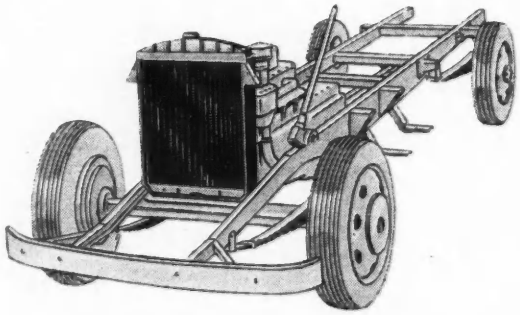
engineered cooling system

Sure, the radiator is the basic unit of any cooling system—for car, truck, bus or tractor. But there's a lot more to be considered.

What a vehicle manufacturer really wants . . . and what he gets when he consults Harrison . . . is an *engineered cooling system* that provides the most effective cooling at the lowest possible price.

This involves recommendations on such factors as fan location, shrouding of the radiator core, restrictions of air movement, and radiator mounting. The net result is a reduction in core cost, in mounting cost and in assembly cost.

Harrison's Testing Laboratories, engineering know-how, design experience and modern manufacturing facilities assure you an *engineered cooling system* with the most efficient and economical radiator. Harrison Radiator, Division of General Motors, Lockport, New York.



HARRISON

RADIATORS, OIL COOLERS, THERMOSTATS, HEATERS, DEFROSTERS

1730-1

THERE'S NO TOOL LIKE

SPEED WASH

TO CUT DOWN WASHING TIME

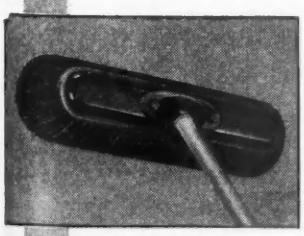
Soaks, Scrubs and Rinses in One Simple Operation!

Actually Reduces Washing Time 40 to 60%

SPEED WASH fountain brush eliminates all waste motion in truck washing. Clean, fresh water is constantly fed through the handle and eight jets in the brush, right to the washing surface. Speed Wash is easy to handle—entire weight is only 40 ounces.

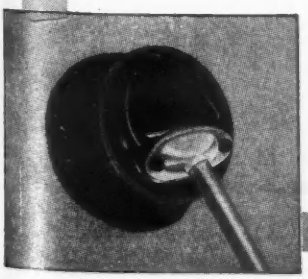
Exclusive construction of Speed Wash makes for long service at low cost. Tufts of Nylon and Horsehair are hand-stitched into block with rust proof wire; they cannot come out or come loose. Block is covered with a permanent steel back. Five foot light weight steel handle is detachable; brush head is economical to replace.

Proved by thousands of users under widely diversified conditions, Speed Wash is unconditionally guaranteed to meet your requirements. Order the style of Speed Wash that best fits your needs on the handy coupon below. Include check for post paid shipment. If you are not completely satisfied, your money will be refunded in full upon return of the brush.



No. 240 Oblong Speed Wash has 11" back. Ideal for washing large trucks, trailers and busses.

Complete with 5' handle **$11.75**



No. 250 Round Speed Wash has 5½" diameter back. Designed for washing light trucks.

Complete with 5' handle **$14.25**

HANDY ORDER BLANK

Milwaukee Dustless Brush Co.
530 North 22nd Street • Milwaukee, Wis.

DATE_____

Gentlemen: Please ship the following Speed Wash brushes.

QUANTITY	DESCRIPTION	PRICE	TOTAL
	No. 240 Oblong Speed Wash		
	No. 250 Round Speed Wash		

NAME_____

ADDRESS_____

CITY_____ ZONE____ STATE_____

2741-1

PERMALUX*...

looks better...longer!

Much as we dislike generalities in advertising, the phrase, "Looks better, longer", sums up the reason for specifying PERMALUX rather than just Decalcomania. Time—and fleet records—have proven that the *best* Decalcomania is the *cheapest* when viewed in the light of *"cost-per-interval-of-renewal"*.

This long-range economy obtained even when the first cost of PERMALUX was much higher than it is today. Naturally, under the "American System", as volume increased, manufacturing costs decreased while techniques improved; steadily lowered consumer prices have further expanded usage. Today's PERMALUX is a better value than ever.

For complete facts, write direct or consult Du Pont Refinish Branches.

*Made with Du Pont "Dulux".

THE Permalux COMPANY

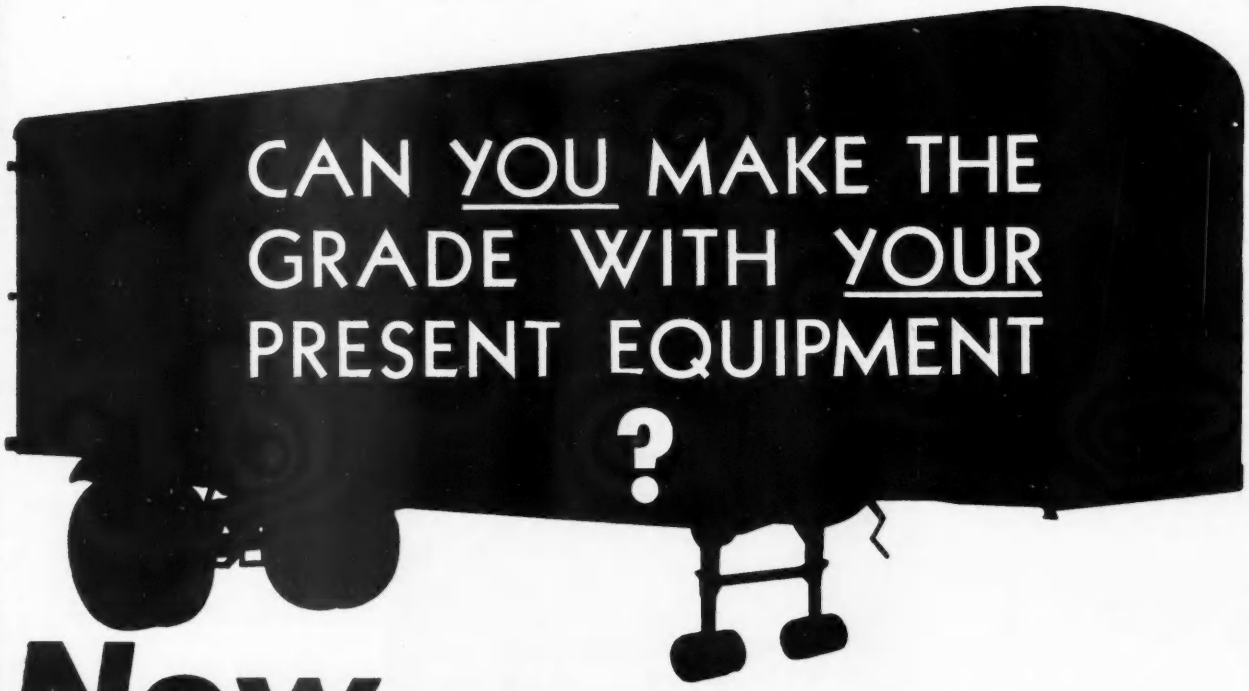
Buy best, it's cheapest

500 RATHBONE AVENUE AURORA, ILL.

3531-1

RELATIVE ANNUAL INCREASE IN TRUCK TRAFFIC VOLUME —

1947	1948	1949 To date . . .	1950 ? ? ?
	Almost double 1947	and still rising	Practically assured



NOW IS THE TIME TO BUY . . . .

Keep up with your industry's reputation for maintaining adequate facilities, improved service and sane pricing.

Truck Traffic Volume should continue to increase . . . and the Trucking Industry at large will do its part to handle this increase.

A Kingham Trailer, tailored to meet your precise requirements for any hauling need is a wise investment that will enable you to expand economically by operating at the lowest maintenance cost.

Kingham UNIVERSAL Trailers

NATIONAL SALES

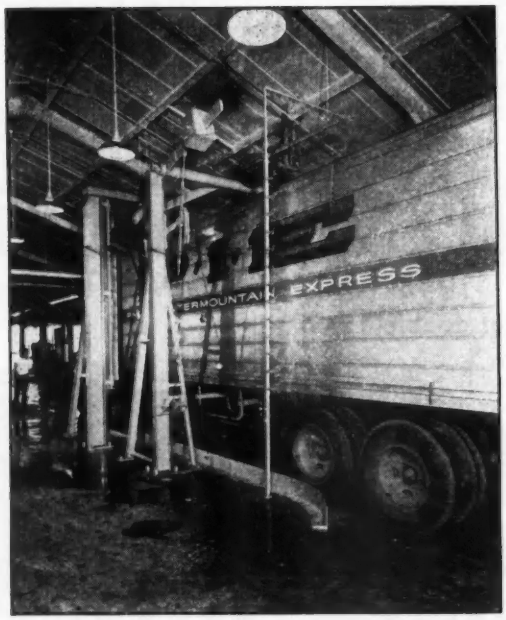
NATIONAL SERVICE

A load behind is a trip ahead

KINGHAM TRAILER COMPANY, INCORPORATED LOUISVILLE, KY.

3814-1

NEW "BLACKHALL" VAN WASHER



RECENTLY MANUFACTURED BY US FOR THE "PACIFIC INTERMOUNTAIN EXPRESS" AND INSTALLED BY THEM IN THEIR NEW LARGE MAINTENANCE BASE, DENVER, COLORADO. WE ARE SUCCESSFULLY WASHING MECHANICALLY THE SIDES AND ROOFS OF THESE LARGE VANS AND TRUCKS SO THAT AT ALL TIMES THEY HAVE A CLEAN, ATTRACTIVE APPEARANCE.

THE ROSS AND WHITE COMPANY WERE THE FIRST COMPANY TO INSTALL "MECHANICAL WASHERS" FOR INDUSTRIAL VANS AND TRUCKS. QUOTATIONS UPON REQUEST.

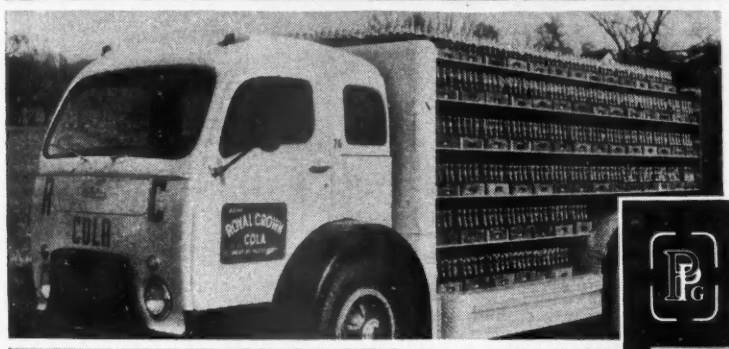
MANUFACTURED EXCLUSIVELY *by*

ROSS AND WHITE COMPANY

CHICAGO DAILY NEWS BUILDING, CHICAGO 6

CLYDE P. ROSS, President • DAVID E. WHITE, Vice Pres.

3860-1



In the new White Trucks *Safety Glass* BY PITTSBURGH

MANY prominent manufacturers equip their trucks with Pittsburgh windshields, windows and back lights. And in many well-managed fleets—especially where maintenance costs are watched closely—all glass replacement parts must bear a Pittsburgh trade-mark.

Excellent service records, on trucks of all sizes and makes, have won an enviable reputation for Pittsburgh Safety Glasses. Their continued high quality is assured by an aggressive product development program, unequalled research and manufacturing equipment, and many man-years of experience in making top quality glass.

The Pittsburgh trade-marks — Duplate Safety Plate Glass and Duolite Safety Window Glass — are your guarantee of long, trouble-free service.

Near you there is a concern that specializes in the distribution of Pittsburgh Safety Glasses for trucks. We shall be glad to furnish the name and address. Pittsburgh Plate Glass Company, 2352-9 Grant Building, Pittsburgh 19, Pa.

DUPLATE A S W S SAFETY PLATE

Look for one of these trade-marks, etched in the corner of the glass.

DUOLITE A S SAFETY WINDOW

Photos by courtesy of The White Motor Company

Safety Glass BY PITTSBURGH

DUPLATE SAFETY PLATE GLASS · DUOLITE SAFETY WINDOW GLASS

PAINTS · GLASS · CHEMICALS · BRUSHES · PLASTICS

PITTSBURGH PLATE GLASS COMPANY

1460-1

Now! THE WORLD'S LARGEST LAUNDERERS JOIN THE SWING TO OLSON KURB-SIDE!

Weighs a Thousand Pounds Less—
Carries a Half a Ton More!

Carting light deliveries in a heavy-armored, steel-plate truck is like taking a battleship on a fishing trip. It's just not efficient!

That's probably why the best brains at Consolidated Laundries decided to introduce light, roomy **Kurb-Side** truck bodies—made entirely of aluminum alloy—to their huge delivery fleet.

You can bank on it that Consolidated Laundries didn't get to be the world's largest launderers by pure guesswork. They did some mighty careful thinking about exclusive **Kurb-Side** features like these:

- **Kurb-Side** is the nation's biggest-selling all-aluminum alloy truck body!
- Minimum obstructions, maximum space—because the self-reinforced airplane-type aluminum shell, designed by Grumman, requires no awkward braces to give it strength!
- All-aluminum-alloy looks better, wears longer—because it shrugs off rust and corrosion!
- Repair and replacement costs considerably less due to Kurb-Side's special construction! Factory-constructed components easily installed.
- Eye-fetching appearance; tremendous advertising value; unobstructed vision for driver; heavy-duty hardware; roller-bearing doors!
- After many years of faithful service, The Olson **Kurb-Side** gives you an extra *premium* profit because of the high residual value of aluminum alloy!
- Three great models to choose from—*Model T3-9* (350 cu. ft.); *Model T3-11* (420 cu. ft.); and *Model T3-11-D* (420 cu. ft. Dual Wheel).

The Olson Kurb-Side offers more features than any other truck body you can use for hauling light, bulky articles such as parcels, baked goods—or laundry. Want more details on the bantam-weight body with the heavyweight capacity? Then go say "Hello" to your truck dealer—soon!

***Kurb-Side* A-A-A Bodies designed by GRUMMAN**

Grumman

J. B. E. OLSON corporation

2059 Coney Island Avenue • Brooklyn 23, New York • Esplanade 5-1300

3831-1

Be smart about your business . . . demand uniforms of

REEVES QUALITY FABRICS

Beyond compare for smart good looks and longer wear, Reeves Fabrics have what it takes to stand up under the punishment of repeated launderings . . . and still look fresh and crisp. For these Reeves Fabrics are made from carefully selected long-staple cotton . . . combed . . . Sanforized* . . . and vat-dyed in colors that are fast to sun, water and perspiration.

You benefit three ways. Smart looking uniforms boost employee morale...increase customer good will. Longer-wearing uniforms mean greater savings because they spread first costs.

Look for the Reeves Fabric Label—it's your sign of uniforms and work clothes that "mean business." Write today for complete information concerning your industry.

**Residual shrinkage less than 1%*

"FROM COTTON TO CUTTER"

REEVES BROTHERS, INC.

54 WORTH STREET, NEW YORK 13, N. Y.

REPRESENTATIVES IN: *Akron • Atlanta • Boston • Chicago • Dallas • Los Angeles • Philadelphia • Portland, Oregon • St. Louis • Montreal • Toronto*

330-1

HERE'S WHAT YOU GET

with Stewart-Warner's New "Safety-Sealed"

South Wind 979

COMMERCIAL VEHICLE HEATER

Hot Heat in 60 Seconds Flat!

Thermostatic Heat Control Available!

18,000 BTU's per Hour! (rated output)

Continuous Forced-Air Circulation!

Easily Installed on Any Commercial Truck Body!

Approved by Underwriters' Laboratories

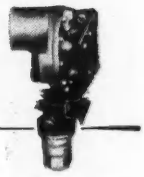
Dimensions:
19½" long 11" wide 12½" deep

Easy to install in the cargo or crew compartment of almost *any* commercial vehicle, this compact new South Wind 979 provides steady, adequate heat with positive safety and dependability.

Exclusive South Wind "Safety-Sealed" design, proved in the nation's leading aircraft, completely separates combustion air from the ventilating system! This efficient new "packaged heating" unit is of all-welded, stainless steel construction for trouble-free, long-life performance.

The "979" is now available with either manual or thermostat control which maintains whatever temperature the driver selects. From even the coldest start, this reliable new heater starts flooding the vehicle interior with safe, uniform heat in 60 seconds flat.

Fuel Safety Valve, installed at the fuel source, insures utmost safety in case of ignition failure or emergency.

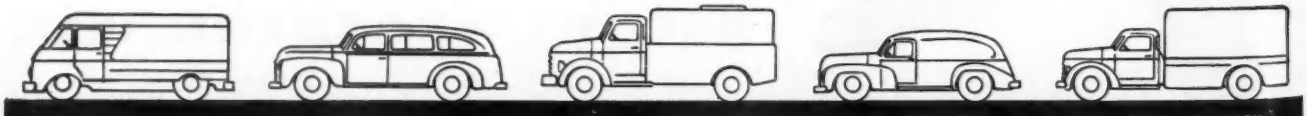


Write now for full details on how this outstanding new development brings greater efficiency, comfort and dependability to commercial vehicle heating.

Another Product of STEWART WARNER

South Wind

Car Heater Division • Stewart-Warner Corporation
Chicago 14, Illinois



3213-1

WHETHER IT'S . . .

EACH MOVE IS IMPORTANT!

We've just made one of the most sweeping moves in our history . . . we've moved closer to you trailer tank owners and operators all over the country . . . we've moved into your territory.

DAVISBILT now offers its most complete sales coverage in over thirty-five years of service to users of fluid carriers. The factory branches and distributors of the Highway Trailer Company of Edgerton, Wisconsin, now handle DAVISBILT tanks.

In towns and cities never before reached, DAVISBILT representatives now stand ready to discuss your particular problems in fluid transportation. You will get prompt, direct and personal action on your inquiries.

Highway sales personnel are eager to tell you about DAVISBILT trailer tanks. For the name of your nearest distributor, send us the coupon below.

THE DAVISBILT PRODUCTS CO.

DAVISBILT

Cincinnati, Ohio

Our former distributors and sales force continue to serve your truck and trailer needs.

DAVISBILT PRODUCTS COMPANY
1110-1120 Richmond Street
Cincinnati 3, Ohio
Send me the name of my nearest sales representative.

NAME .....
FIRM .....
STREET .....
CITY ..... ZONE ..... STATE .....

3814-1

the Standard AXLE ....

UNCONDITIONALLY

GUARANTEED

Guarantee

WE WILL REPLACE NO-CHARGE FREIGHT PREPAID ANY STANDARD FORGE INSERTED SPINDLE TUBULAR AXLE BEAM RETURNED TO US PREPAID WHERE OUR INSPECTION FINDS THIS AXLE BEAM FRACTURED OR BROKEN AT ANY POINT BETWEEN OUTER END OF SPINDLE AND A POINT TWO INCHES FROM OUTER EDGE OF THE SPRING SEAT.

★ ★ ★

THIS GUARANTEE, MADE IRRESPECTIVE OF LOAD, SPEED OF OPERATION AND WITHOUT TIME LIMIT, IS BASED ON YEARS OF USAGE OF THE INSERTED TYPE SPINDLE SHOWN BELOW.

THIS CONSTRUCTION USED IN AXLES INTERCHANGING WITH AXLES OF OTHER TYPES OF SPINDLE CONSTRUCTION RESULTS IN STRENGTH FAR EXCEEDING STRENGTH AND CAPACITIES OF TIRES, BEARINGS AND BALANCE OF TRAILER UNIT. THUS, NO FAILURES OCCUR EXCEPT IN CASE OF DEFECTIVE MATERIALS.

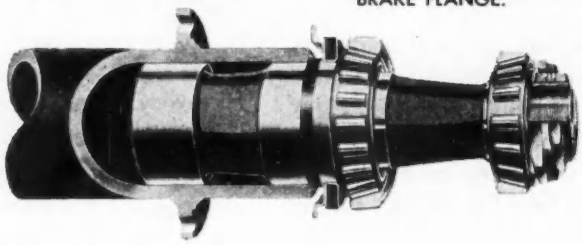
NO SUCH UNRESTRICTED GUARANTEE MADE ON THE BALANCE OF AXLE BETWEEN TWO LIMITING POINTS ABOVE DUE TO ABSENCE OF CONTROL OF MOUNTING CONSTRUCTION, CENTER OF SPRING SEATS AND WELDING OF ATTACHING PARTS WHICH VARY ACCORDING TO INDIVIDUAL SKILL AND DESIGN.

SOLID SPINDLES FORGED FROM ALLOY STEEL AND HEAT TREATED FOR GREATER STRENGTH.

HIGH CARBON SEAMLESS TUBING HEAT TREATED FOR ADDED STRENGTH — PREVENTS LOSS OF CAMBER.

SPINDLES PRESSED INTO MAIN TUBE BY TREMENDOUS HYDRAULIC PRESSURE — AXLE STRENGTH NOT DEPENDENT UPON A WELD.

INSERTED SPINDLE REINFORCES AXLE AT BRAKE FLANGE.



ADEQUATE BEARING SHOULDERS PROVIDED ON SOLID SPINDLE WITHOUT REDUCING STRENGTH AT A CRITICAL POINT.

SPINDLES GROUND TO CLOSER TOLERANCE THAN BEARINGS.

REQUEST YOUR TRAILER MANUFACTURER TO FURNISH STANDARD INSERTED SPINDLE AXLES ON YOUR NEW TRAILERS. AVAILABLE AT TRAILER MANUFACTURERS AND DISTRIBUTORS FOR REPLACEMENT AND CHANGE-OVER JOBS.

★ **Standard TRAILER AXLES**

Standard Forge & Axle Company Inc.

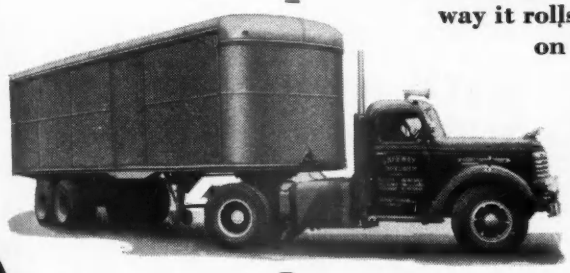
MONTGOMERY . ALABAMA

BRAKES FORGINGS TRAILER PARTS

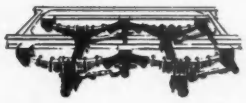
3824-1

"60,000 Miles... not a dime for trailer maintenance!"

says Clifford Hicks, Dorsey Trailer Owner of St. Louis, Missouri



And listen to the report of Jack Jackson, a driver for Mr. Hicks: "I'd rather pull a Dorsey than any of them. I like the way it rolls along with any load, light or heavy. There's no lean on curves, the brakes are right there when I need them, and it doesn't 'dog track' on the road." . . . Dorsey Fleet Chief vans carry maximum loads day in and day out for Mr. Hicks. And compared with any of four competitive make trailers he operates, "The Dorsey is DEFINITELY LIGHTER."



TANDEM UNDERCONSTRUCTION . . . A tandem running gear so simple that only two parts need lubrication, and those only after 50,000 or more miles of operation, can be yours with Dorsey. Easy-riding, smooth-braking, a really trouble-free tandem.

EXCLUSIVE SIDE CONSTRUCTION . . . Dorsey's exclusive X-braced side wall construction stands up under the biggest loads on the roughest roads. Shear forces are eliminated by spreading stresses throughout the entire trailer. Each side member does its full share of the job.

NATIONAL SALES AND SERVICE . . . Seventy-six Dorsey sales and service headquarters in key cities along major truck routes are equipped to handle your preventative maintenance enroute. See your nearby Dorsey Distributor today! Ask him, or write direct, for your copy of "Eight Shots at Your Target," the new Dorsey guide to increased trucking profits.

DORSEY *Fleet Chief*

DORSEY TRAILERS, INC. • ELBA, ALABAMA

3814-1

The INSIDE STORY of a Dollar Saving Battery

This actual photograph shows how FIBERGLAS* Retainer Mats make batteries last longer, perform better—and save money for you.

Yes, this "inside story" proves it . . . Fiberglas Retainer Mats hold the power-producing lead oxides against the positive plates longer . . . and *that means longer, trouble-free service from your batteries.*

And, the "inside story" on the records of fleet operators using Fiberglas-insulated batteries proves even more strongly that important savings are made possible. *It will pay you to ask your dealer about these dollar-saving batteries today.* Owens-Corning Fiberglas Corporation, Dept. 960, Toledo 1, Ohio.

For Longer, Better Service . . . get Batteries *DOUBLE-INSULATED* with

OWENS-CORNING
FIBERGLAS

**FIBERGLAS is the trade-mark (Reg. U. S. Pat. Off.) of Owens-Corning Fiberglas Corporation for a variety of products made of or with glass fibers.*

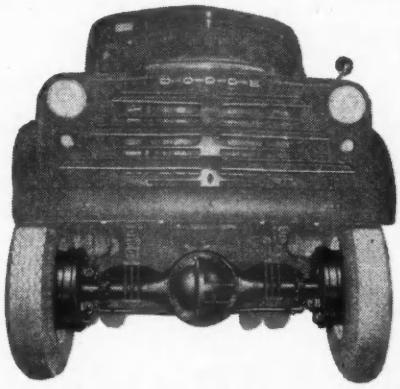
1512-1

POWER PLUS

COLEMAN Installations Change Standard Trucks TO 4-WHEEL DRIVES

FORD This Coleman-Converted Ford now hauls capacity loads up steeper grades under all conditions.

CHEVROLET This Coleman-Converted Chevrolet with telephone maintenance body "goes anywhere" for off-the-road repairs and construction.



DODGE The Coleman Front-End Drive on this Dodge truck provides the extra tractive power needed to handle maximum loads.

GMC Coleman 4-Wheel Drive Conversion gives this GMC truck tremendous power for heavy rock hauling jobs.

INTERNATIONAL Fitted with under-body blade and snow plow attachment, this Coleman-Converted International maintains roads the year around.

Coleman 4-Wheel Drive Installations give standard trucks that EXTRA POWER! Colemans make it easier for trucks to haul bigger payloads . . . . to perform heavier work when the "going gets tough". With 4-wheel drives, the front wheels are pulling their part of the load — there's little slippage or bogging down in soft ground.

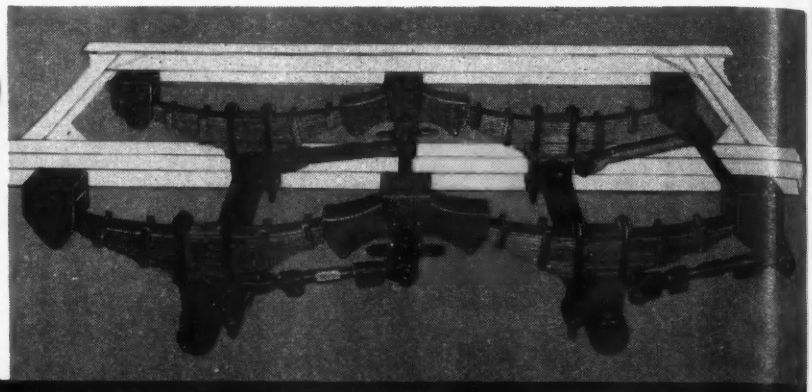
Coleman units are precision built — easily serviced without expensive tools or specially trained mechanics. No extra burden on your present service or parts department.

Coleman Front-End Installations have been successfully used the world over for 25 years. Write for full information today.

The American-Coleman Co.
OMAHA, NEBRASKA

3811-1

NOW IT'S THE



REYCO TANDEM

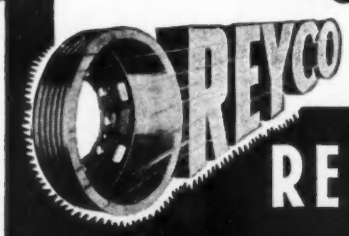
PROVED BY SEVEN YEARS OF COMMERCIAL SERVICE

as the nation's finest . . . and the answer to the Fleet Operator's prayer for REDUCED MAINTENANCE COSTS—INCREASED TIRE MILEAGE—and SMOOTH, EASY RIDING. Manufactured exclusively by Reynolds under Frazier patents, REYCO brings you coordination of springing on all four wheels with elimination of the usual chattering and vibration of axles fighting against each other and the squeaking and squealing of a complexity of parts.

NO OTHER TANDEM SO PERFECTLY CONTROLS THE LOAD IT BEARS!

ONLY REYCO COMBINES ALL THESE FEATURES:

- Six Point suspension (three each side).
- Equal load distribution on all wheels at all levels.
- Cushion action springing.
- Full and even braking power on all axles.
- Relieves spring-breakage problem.
- Fewer moving parts . . . easier to install.
- Only one place each side to grease . . . ends your maintenance problems.



REYNOLDS MANUFACTURING CO.

SPRINGFIELD, MISSOURI

3824-1

Experience of 30-Odd Years in Production of UTILITY BODIES

Type B-4—features 4-man crew compartment in body . . . used by power, light, and communications utilities.

We build utility truck bodies on an assembly line basis. In this field, we are the largest exclusive manufacturers of standard utilities equipment for motor vehicles.

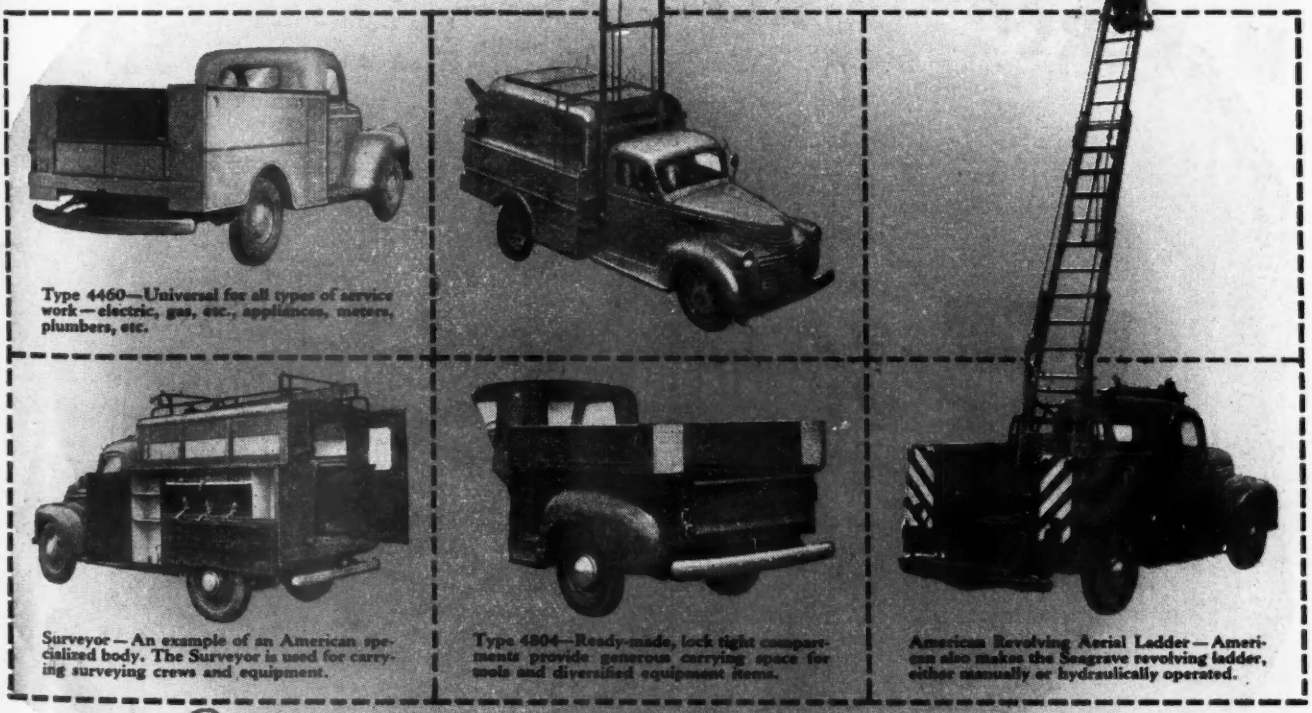
The American line includes several different types of bodies — line construction, light line service, general service and meter installation, utility, crew compartment, maintenance, installation, signal lighting maintenance, street lighting, and others.

If you have an idea on bodies for your particular fleet, chances are we already have a body for your requirements, or with a few minor changes in one of our bodies can give you what you need — on a production basis.

We can serve you with what you need to help you serve others.

Type DPL and DT Line Construction bodies are the standard design for power, light, and communicating utilities.

American Tower Lift — Provides working heights of better than 30 feet. Used in line construction work, street lighting, signal maintenance, tree trimming, and many other types of work. Two models—heavy duty and light duty.



Type 4460—Universal for all types of service work—electric, gas, etc., appliances, meters, plumbers, etc.

Surveyor — An example of an American specialized body. The Surveyor is used for carrying surveying crews and equipment.

Type 4804—Ready-made, lock tight compartments provide generous carrying space for tools and diversified equipment items.

American Revolving Aerial Ladder — American also makes the Seagrave revolving ladder, either manually or hydraulically operated.

THE *American* COACH & BODY COMPANY

MAIN OFFICE AND PLANT — 9503 WOODLAND AVE., CLEVELAND 4, OHIO
CALIFORNIA DIVISION — 432 FIFTH STREET, OAKLAND 7, CALIFORNIA

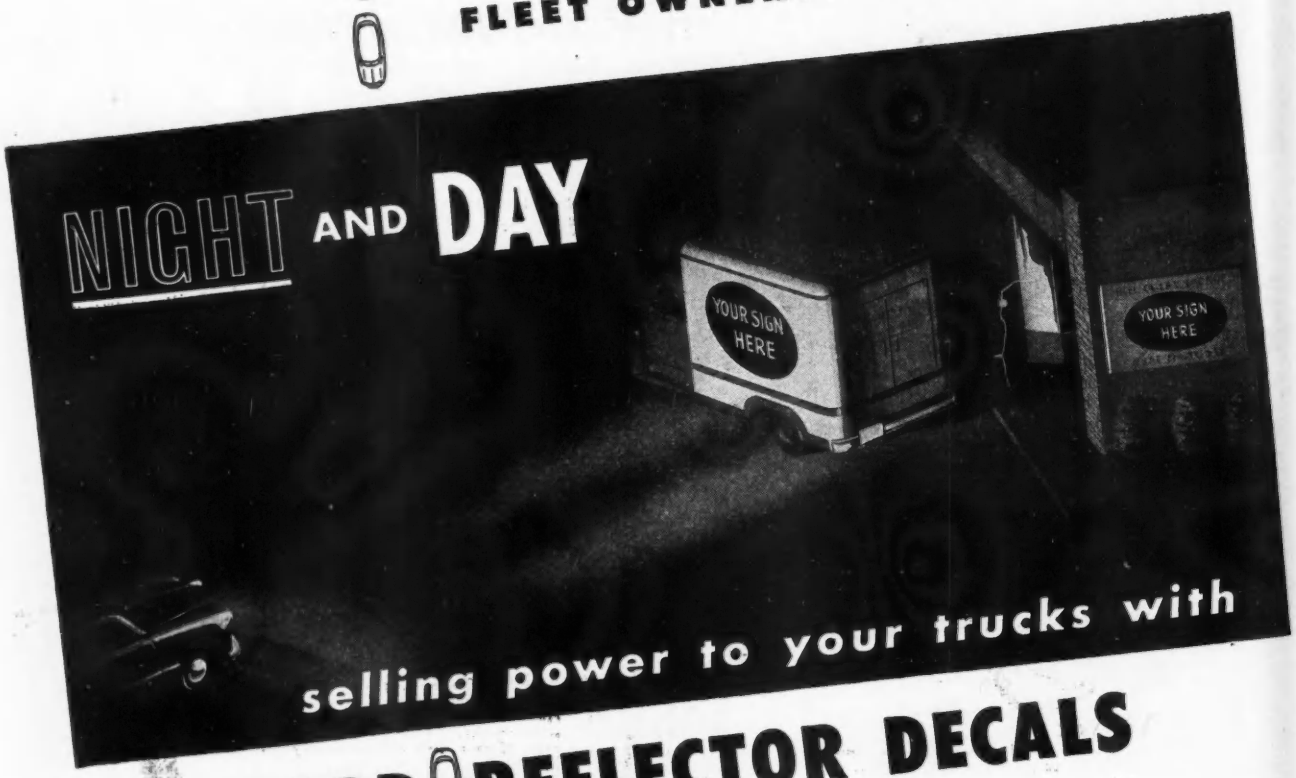
SALES OFFICES: INSURANCE EXCHANGE BLDG. DES MOINES 9, IA. · 207 LAKE STREET MONROE, N. Y. · HEALEY BLDG. ATLANTA, GA.

DISTRIBUTORS: BAKER EQUIPMENT ENGINEERING CO. SUMMIT & NORFOLK STS. RICHMOND 11, VA. · EQUIPMENT SERVICE, INC. 1 WAWARME AVE. HARTFORD 6, CONN.

ACB and

3831-1

FLEET OWNERS . . . ADD



MEYERCORD REFLECTOR DECALS

NOW . . . Unlimited Color-Range Vividly Reflected At Night!

Fleet Owners! Advertisers! You've seen reflector signs at night—but never anything like this! Meyercord Night-and-Day Reflector Decals actually provide *full half-tone reproduction*—as brilliant and detailed as full-color photos—activated by countless headlight beams.

Your name, product or message sparkles in the night with full, rich color and life-like realism. Give your trucks this dramatic, double-advertising impact. Bright by day—alight by night. The space is free. Your choice of size, colors, designs unlimited!

Meyercord Decals have long proved a real economy on fleets of a dozen or thousand trucks. They save costly hand painting, improve appearance. Now, new Meyercord Reflector Decals work 24 hours a day as "mobile billboards." They're washable, weather-tested. For details, Write Dept. 9-11.

Founder-Member Lithographic Technical Foundation

The MEYERCORD Co.
World's Largest Decal Manufacturer
5323 W LAKE ST CHICAGO 44, ILL.

FREE DESIGNING!
Use your "free space" on trucks. Ask about trademarks, illustrations, etc., in Meyercord Reflector Decals. Designing Service FREE!

3531-11

KELSEY-HAYES

Opens Los Angeles, California Plant to Better Supply Automotive Parts to West Coast Industries . . .

One of 8 specialized plants serving areas of major industrial expansion

Kelsey-Hayes' new California Division, recently established and now operating at Los Angeles, provides fast expanding west coast industries with a great new source of superior Kelsey-Hayes automotive products. Like all other plants in Kelsey-Hayes' nation-wide organization, serving major industrial areas, this new California Division has the "Know-How" to serve you best.

Know-How ASSURES PROVEN PRODUCTS AT

KELSEY-HAYES WHEEL COMPANY

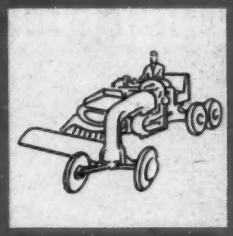
DETROIT 32, MICHIGAN

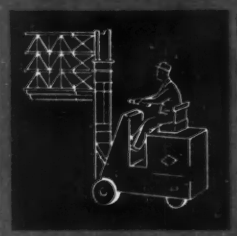
PRODUCTS: Wheels—Hub and Drum Assemblies—Brakes—Vacuum Brake Power Units—for Passenger Cars, Trucks, Buses—Electric Brakes for House Trailers and Light Commercial Trailers—Wheels, Hubs, Axles, Parts for Farm Implements.
PLANTS: Kelsey-Hayes Plants in Michigan (4); McKeesport, Pa.; Los Angeles, Calif.; Davenport, Iowa, Windsor, Ontario, Canada.

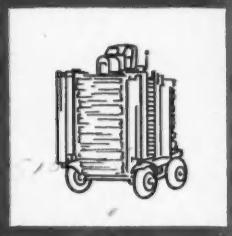
3824-1

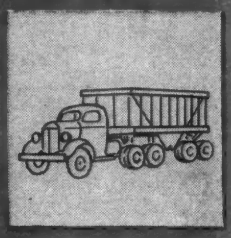
Gemmer Steering

is improving
the performance
of all types of









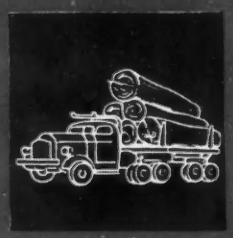
Self-Propelled Burden Bearers

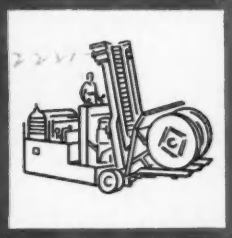
Trucks—road and factory—buses—tractors—road machinery—loaders—stackers—every wheeled power vehicle that carries a burden, needs Gemmer Easy Steering.

Gemmer Steering lightens the labor of operating. The Rolling Gear Tooth Sector and liberal use of antifriction bearings provide highest efficiency—smooth, easy transfer of power—abundant power for maneuvering or parking.

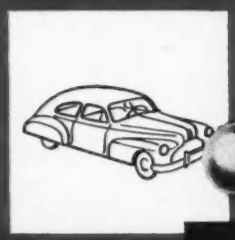
Inherent design banishes "lost motion." Steering is always firm, responsive and positive with absence of rubbery feeling or wander.

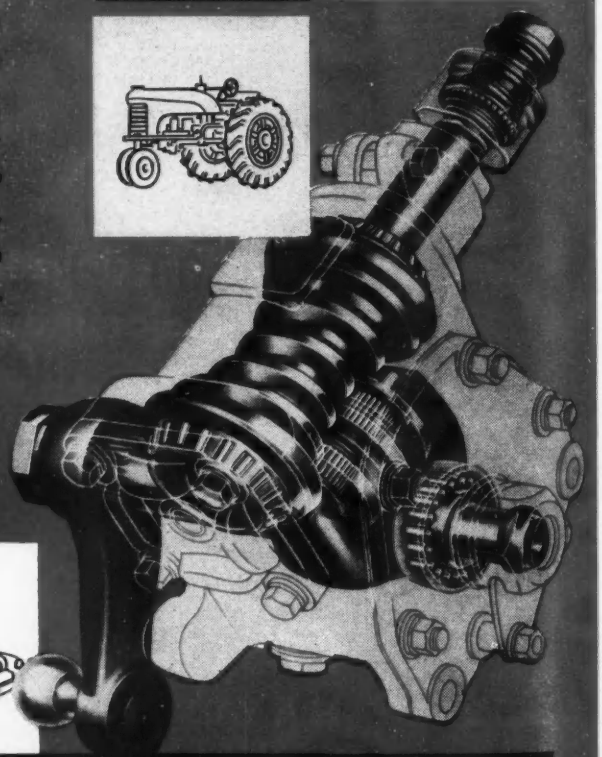
STRENGTH . . . DURABILITY . . . LOW MAINTENANCE—Alloy steel forgings avoid excess weight and bulk—provide plenty of strength and durability. A Gemmer Steering Gear, with reasonable care, will last the life of the vehicle with practically no maintenance. It is always reliable, trouble-free.





GEMMER MANUFACTURING COMPANY
6400 Mt. Elliott · Detroit 11, Michigan





MAKERS AND USERS OF
POWER VEHICLES HAVE PREFERRED
GEMMER STEERING FOR 42 YEARS

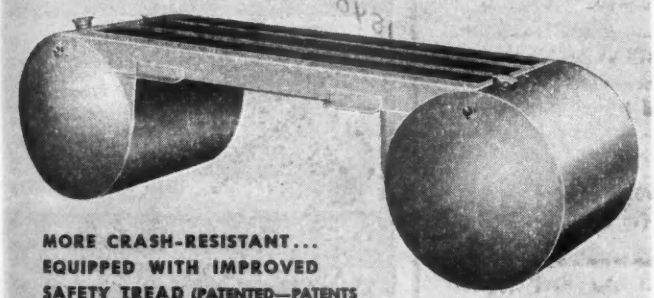
3870-1

NEW...BETTER...PROVED...THE FIRST MAJOR IMPROVEMENT IN SADDLE TANKS IN 10 YEARS

NEW TRULY SAFE SADDLE TANK

"Cylsad"

TRADE-MARK



MORE CRASH-RESISTANT... EQUIPPED WITH IMPROVED SAFETY TREAD (PATENTED—PATENTS PENDING)

CYLINDER TANK SAFETY PLUS SADDLE TANK ADVANTAGES

In this attractive, clean-cut unit, known as Cylsad, two cylinder tanks are snugly supported and ingeniously braced into a smooth, low, flat saddle structure, topped with an abrasive tread deck, equally effective wet or dry. The complete assembly is many times stronger than two cylinder tanks with side mounting or angle and strap supports, yet gives full gallonage capacity within relatively small dimensions. All these advantages —at a competitive price. Capacities 105, 125, 150 and 180 gallons.

Also offered in novel saddle-tool box combination with built-in tool box easily accessible. All tanks tested with the G. E. electronic leak detector.

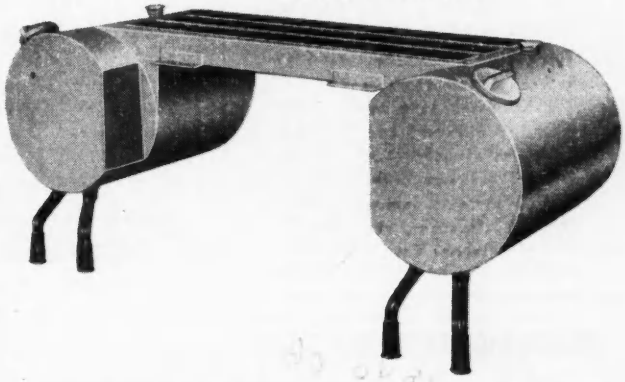
AS DEPENDABLE AS YOUR BRAKES

"Cylsan"

TRADE-MARK

TANK-SANDER COMBINATION

(PATENTS PENDING)



AVAILABLE WITH EITHER AIR or VACUUM OPERATED SANDERS

Known as Cylsan, this saddle unit is built like the Cylsad and has all the advantages of cylinder tank construction. In addition, the sanders have been ingeniously combined with the tanks into one unit, resulting in lighter weight, easier handling, and lower price.

The tank has a total capacity of 125 gallons, with a saddle width of 26 inches to insure easy installation on any tractor. The Sander section includes two hoppers, each of 125 lbs. capacity.

SEND FOR FOLDERS—*Write today for descriptive folders and name of nearest distributor.*

THE LINTERN CORPORATION
58 LINCOLN AVENUE • BEREA, OHIO

722-1

WIG-WAG

LOW AIR PRESSURE INDICATOR

OPERATED ENTIRELY BY AIR PRESSURE

A SAFETY NECESSITY FOR ALL AIR BRAKE SYSTEMS

The Wig-Wag mounts above the windshield, on driver's side. In horizontal position until warning is needed - the Wig-Wag instantly swings into driver's field of vision whenever air pressure drops below point required for safe air brake operation.

- Visible from both inside and outside the vehicle when air pressure is low.
- No electrical connections; no extra equipment to buy.
- No upkeep expense. Low original cost.

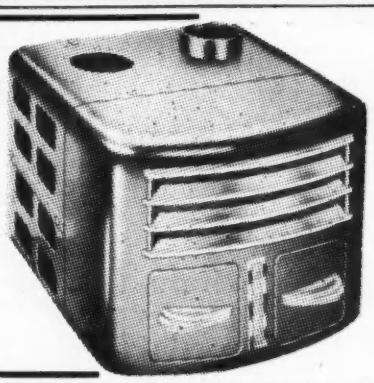
Write today for information

monroe standard, inc. GALION, OHIO.

HEATERS — DEFROSTERS CAR and BUS

Complete With
Replacement Parts Service
Discount to Fleet Owners & Wholesale
Immediate Delivery
Catalog and Price List on Request

TRUCK & COACH HEATER SALES
11611 Linwood Avenue
Detroit 6, Michigan



HEAVY DUTY MOTOR TRUCKS

GASOLINE ELECTRIC
GENERATING SETS

DUPLEX

TRUCK COMPANY
LANSING, MICHIGAN

SALES ENGINEER WANTED

Old established Parts manufacturer is desirous of securing the services of a competent Sales Engineer to call on large Fleet accounts. Must have ample experience, good record and willing to travel extensively. Give full details of previous connections and accomplishments, remuneration expected, references, etc. Box No. 17. Commercial Car Journal, 5601 Chestnut St., Philadelphia 39, Pa.

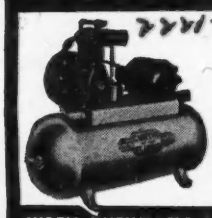
INTERCHANGEABILITY PARTS LIST
for
EATON TWO SPEED AXLES
in

Brockway, Diamond T, Dodge, Ford, General Motors, and International Harvester trucks.

Easy-to-read cross-reference charts giving names and numbers for all parts of these axles. $5.00 per copy. Small postage charge on C.O.D. orders.

M & H PARTS INC.
14066 Euclid Ave. East Cleveland 12, Ohio

Is it *Air* YOU WANT?



—then write for
BULLETIN C-6
illustrating and describing
CURTIS AIR COMPRESSORS • AUTO LIFTS • CAR WASHERS

CURTIS PNEUMATIC MACHINERY DIVISION
of Curtis Manufacturing Company
1970 Kienlen Avenue • St. Louis 20, Missouri

SANDER FILL
for safe stops

1. FREE FLOWING
2. UNIFORM
3. MORE TRACTION
4. WON'T FREEZE
5. DUST FREE

Write for Prices and Samples.

KEYSTONE GRANITE QUARRY
Old Zionsville, Pennsylvania

MAKE STEERING EASIER!
with
GARRISON HYDRAULIC *boosters*

AVAILABLE IN KITS for trucks, truck cranes, motor graders, and wheel type tractors. See your dealer or write.

GARRISON MFG. CO.
1506 Santa Fe Ave. • Los Angeles, Calif.

Washington Runaround

Continued from Page 30

same annex are very close to U. S. standards: width, 98 in.; height, 12½ ft; length of a two-axle truck, 33 ft; length of a two-axle bus, or of any three-axle vehicle, 36 ft; length of a tractor-semi-trailer, 46 ft; length of a truck and one full trailer, 59 ft; length of a truck and two full trailers, 72 ft. (This last measure would be barred by the AASHO recommendations.)

Mr. Kelly hailed the acceptance of the American viewpoint on many of these subjects and pointed out that these principles "will undoubtedly have a profound influence upon the design and construction of both highways and vehicles throughout the world."

FCC Issuing New Mobile Radio Licenses to Carriers

The Federal Communications Commission has issued the first regular licenses in the new Domestic Public Land Mobile Radio service to five common carriers.

Among the initial grants was one to the Lincoln Telephone and Telegraph Co., an independent operating in the vicinity of Lincoln, Nebraska, and others to the Black and White Cab Co., of Fort Smith, Arkansas; John M. Mulligan, Elmira, New York; Burk Radio Dispatch Service, Albuquerque, New Mexico; and Hawaiian Hills Communications, Honolulu, T. H.

About 141 associated mobile units are covered by these authorizations. The result will be that occupants of these vehicles will have telephone service. Some carriers will be able to interconnect with the telephone system, others will be limited to communication with a single fixed station.

Currently pending before the Commission are some 212 applications from telephone companies seeking to establish this service in 162 cities, and 182 applications from non-telephone companies desiring to operate in 131 cities.

END

Please resume your reading on P. 35

On any Trucking Job—Air Brakes pay for themselves!

You can prove it with simple arithmetic. Just think of it in terms of your *own* business. With Bendix-Westinghouse Air Brakes, your trucks can carry bigger, heavier loads, faster and more safely—advantages that are bound to mean extra profits. Add to this, all of your savings on brake maintenance—your Bendix-Westinghouse distributor can give you case history after case history, showing that Bendix-Westinghouse Air Brakes not only save more than other *types* of brakes, but more than any other kind of *air* brakes. That's bonus performance you can rely on because Bendix-Westinghouse is the oldest and largest manufacturer in the field. Total up the assets and you'll agree, on any trucking job, Bendix-Westinghouse Air Brakes are the best investment a truck owner can make these days.

THE BEST AIR BRAKE IS

Bendix-Westinghouse

BENDIX-WESTINGHOUSE AUTOMOTIVE AIR BRAKE COMPANY
ELYRIA, Ohio

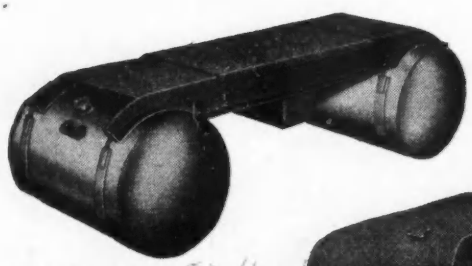
Ask your authorized Bendix-Westinghouse Distributor how you can save money on brake maintenance.

BENDIX-WESTINGHOUSE GENUINE AIR BRAKES
REG. U. S. PAT. OFF.

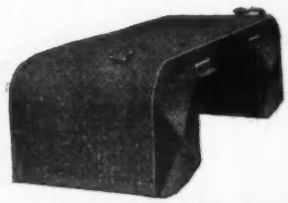
1944-1

SNYDER SAFETY TANKS

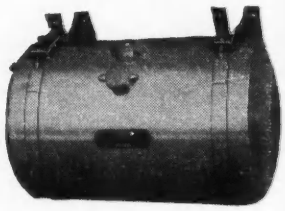
A reflection of confidence in safety, dependability, and proven performance.



Snyder Safety Cylinder Tank and Tool Box Units use up wasted space by providing storage for tools, chains, power jacks, danger flags, etc. The jackwell is upright to prevent possible escape of jack fluid.



Snyder Safety Saddle Tanks occupy wasted space between the cab and fifth wheel. The top deck plate provides a safer means of crossing the chassis and carrying material, hose lines and spare tires. Fuel capacity of 75 to 150 gallons.



Cylinder Tanks are used where space is limited. They are constructed for standard or end fill. Capacity of 28 to 72 gallons.

For Catalog and Name of Your Nearest Dealer, Write:

SNYDER TANK CORPORATION

P. O. Box 14, Buffalo 5, New York — P. O. Box 2390, Birmingham 1, Ala.

2510-17

KEN-TOOL *Outstanding Quality!*

UNIVERSAL TRUCK WRENCHES

SUPERIOR QUALITY TOOLS, HOT-FORGED FROM CHROME-NICKLE ALLOY STEEL.

TR-1 "Job Designed" for Ford, Budd and Dodge wheels.

TR-2 "Job Designed" for servicing Chevrolet Dual wheels.

TR-3 "Job Designed" for International, Federal, Studebaker, Diamond T and Mack wheels.

TR-4 Leverage bar with socket for GMC, Reo and Federal wheels.

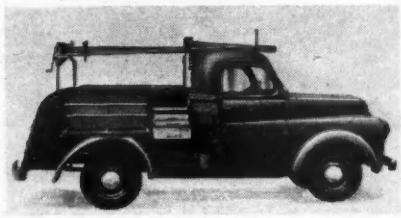
See Your Local Jobber For Our Complete Line!

The KEN-TOOL Mfg. Co. Akron 5, Ohio

NEW COACH VENTILATOR

Twin Coach Co. has announced a new system of coach ventilation at the rate of 6800 cu ft per minute without use of auxiliary power. Both ram and power intake of fresh air is used, but the system differs from conventional ventilating plans in that four dual fans spaced evenly along the roof deliver 3600 cu ft per minute even when the coach is at a stand-still while an additional 3200 cu ft of air is forced into the coach at 15 mph. Combined, the two sources provide 6800 cu ft per minute.

York Utility Body for ½ Ton Chassis



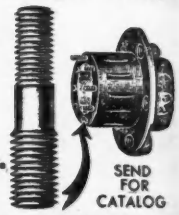
Model 4978 Public Utility Body is designed for standard ½-ton chassis to provide greater compactness for multi-tool storage in constant inventory manner with roomy walled body space 46 in. wide, 60 in. long and 32 in. high. A variety of attachment accessories including brackets, chain hooks, belts and climbers simplify securing of equipment. A wide selection of optional equipment is available from the manufacturer, York-Hoover Corp., York, Pa.

OVERSIZE AND STANDARD REAR WHEEL STUDS

for all Trucks

ORDER FROM YOUR JOBBER

710-06



CHAMP-ITEMS, Inc.
6191 Maple Ave.
St. Louis 14, Mo.

SEND FOR CATALOG

1640-06

MARK of QUALITY!

Whether they are the Original Equipment Valves on the tubes you sell and service or . . . whether you use them as Replacement Valves in your tire repair business, *the Schrader Trade Mark on any Tire Valve you work with is a Guarantee of Quality!*

A. SCHRADER'S SON • Brooklyn 17, New York

Division of Scovill Manufacturing Company, Incorporated

1840-06

FOR ENGINE BEARINGS
CLUTCH PLATES AND PARTS
CHASSIS PARTS

Monmouth TRADE MARK *is the name*

1444-06

KINNEAR

STEEL ROLLING DOORS

For Truck Bodies and Buildings

Kinnear Rolling Doors save floor and wall space, open completely out of the way, and give extra protection. Built any size; motor or manual control. Write for details.

THE KINNEAR MFG. COMPANY
2100-20 Fields Ave. • Columbus 16, Ohio

MONKEY LINK
Self-Closing Repair Link

Trade Mark Reg. U. S. Pat. Off.

MONKEY LINKS

Fit all types of Tire Chains.
Made in 5 sizes

Order them today.

FLOWER CITY SPECIALTY CO.
Rochester, N. Y.

22 OIL PUMPS *to choose from*

HUNDREDS OF OTHER WOHLERT ENGINEERED PRODUCTS

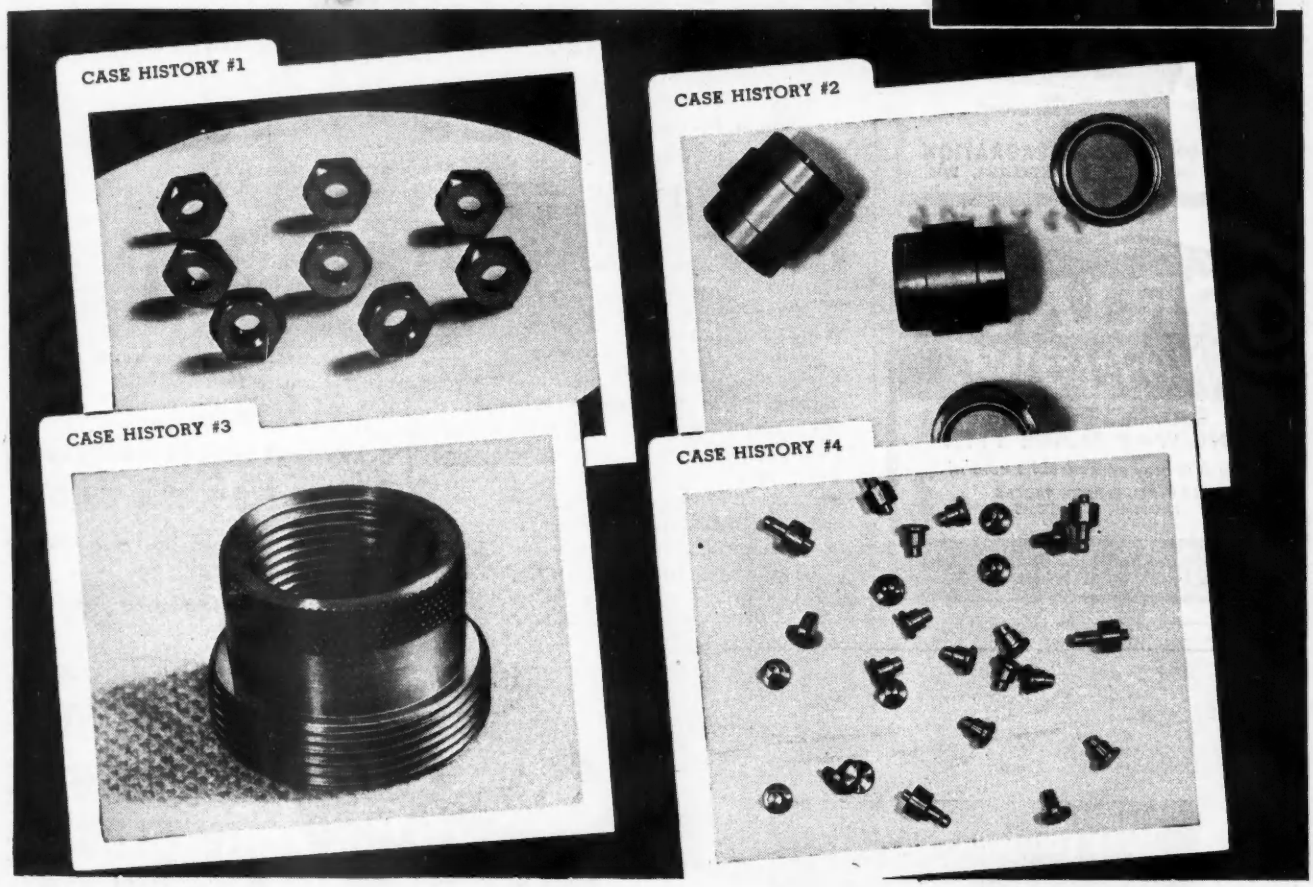
Wohlert CORPORATION
LANSING 5, MICHIGAN

Four typical machine shops report

"LONGER TOOL LIFE"
"BETTER FINISH" } ***WITH NEW***
"FASTER OPERATION"

J&L *FREE-CUTTING "E"* STEEL*

J&L STEEL



Four typical examples, taken from 100 case histories, show superior machinability of J&L "E" Steel.

For 4 years before "E" Steel was publicly announced, this new, free-cutting bessemer screw stock was tried by independent machine shops throughout the metal-working industry.

More than 6,100 tons were tested in over 100 applications!

Here are quotations from 4 typical case histories:

CASE HISTORY #1 ". . . tool life increased 100% at normal speeds . . . better finish . . . shop people liked it."

CASE HISTORY #2 ". . . tool life increased up to 200% . . . uniformity of finish remained constant . . . considerably increased speeds without sacrifice to finish."

CASE HISTORY #3 ". . . tool life increased two to four times . . . we were able to tap 1" full internal pipe thread, almost impossible on regular material."

CASE HISTORY #4 ". . . new steel machines very well . . . finish excellent . . . tool life increased . . . 5 to 10% better production."

You too can get greater economies in your machining operations with new J&L free-cutting "E" Steel. "E" Steel is available in three grades: E-15, E-23 and E-33, each within the composition limits of the standard bessemer screw steels and with similar tensile properties. All standard sizes and shapes are available. For further information write for your copy of our new booklet: "J&L 'E' Steel."

Jones & Laughlin Steel Corporation
432 Jones & Laughlin Building
Pittsburgh 19, Penna.

Please send me a copy of "J&L 'E' Steel."

Name_____

Company_____

Address_____

JONES & LAUGHLIN STEEL CORPORATION

* "E" STEEL IS QUALITY-CONTROLLED FROM OUR OWN MINES THROUGH THE FINISHED PRODUCT

813-1

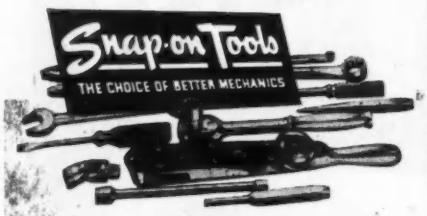
Answers to Brain Teasers

(see page 22)

Enigma

C-A-R-B-U-R-E-T-O-R — CARBURETOR

2510-06



SNAP-ON TOOLS CORPORATION
8026-E 28th AVE. KENOSHA, WIS.

4273-06

FRINK
SNO-PLOWS
REG. U.S. PAT. OFF.
Both "V" TYPE and
ONE WAY BLADE TYPE
hand or power hydraulic control
FOR ALL MOTOR TRUCKS
FROM 1½ to 10 TONS
FRINK SNO-PLOWS, INC., CLAYTON, 1000 Isl., N.Y.
DAVENPORT-BESLER CORP., DAVENPORT, IOWA
FRINK SNO-PLOWS OF CAN. Ltd., TORONTO, ONT.

Name, Please

1. White
2. Oshkosh
3. Dart
4. Duplex
5. Dodge
6. Great Dane
7. Dorsey
8. Kentucky
9. Mustang
10. Highway

ALTERNATIVES

Trucks: Stream crossing — Ford; Town in Connecticut — Milford; Mathematician — Euclid. Trailers: Commercial agent on a ship — Supercargo; Anything useful — Utility; Famous painter — Reynolds.

Two Minus Four

SOLUTION

(2 equals 4 minus 2)

Colored Boxes

ANSWER: 24

Explanation: Say the two colors of a box are red and white. Then the different combinations possible with these two colors are:

1 box with 5 red and 1 white side
2 boxes with 4 red and 2 white sides
2 boxes with 3 red and 3 white sides
2 boxes with 2 red and 4 white sides
1 box with 1 red and 5 white sides

This gives us 8 boxes in all. Now if the third color is blue, the combinations of two different colors are RED-WHITE, RED-BLUE, and WHITE-BLUE or 3 in all. 3 two-color combinations times 8 boxes for each combination makes 24 boxes in all.

Quiz Answers

(see page 22)

1. The trucking industry gives direct employment to 3½ times the number employed by the railroad industries.
2. 46,000 miles of new roads were completed.
3. The industry consumes 7,800,000,000 gallons yearly.
4. The annual ton-miles provided would equal 80 trips to the sun.
5. Such a structure would require 118,300,000 board feet of lumber.
6. 95,000 bales would be used.
7. The industry uses 15,180,000 pounds of aluminum annually.
8. Yearly requirements would equal 24,000,000 square feet.

JOBSERVATION

The chip on the shoulder is often mostly bark.

Have you seen the *NEW*

PASSING EYE ?
TRUCK MIRROR
Write for complete details...
The NORLIPP Company
5925 South Lowe Ave., Chicago 21, Ill.

RIMAC
HEXSET
TAPS & DIES

ENABLE YOU TO RETHREAD IN CLOSE QUARTERS *FASTER*

THESE three neat, compact RIMAC Hexsets are the answer to every mechanic's prayer. Ideal for those difficult rethreading operations in close cramped quarters and for cutting new threads.

1—Rimac No. 77 Hexset—11 one-inch Hex dies, 11 taps ¼" to ½" NC and NF also ⅛" pipe thread, 9" Hex Die Stock, with guides for starting new threads. T Handle Tap Wrench.
2—Rimac No. 73 Hexset—Set includes Sliding T handle tap wrench; 6" Hex die stock; and six taps and dies. All dies have ⅝" hex outside diameter.
3—Rimac No. 78 Hexset—Contains 8 taps and 8 hex dies—½", 9/16", ⅝" and ¾" in both coarse and fine thread. Dies are 1 7/16" outside diameter; 14" Hex die stock with guides for starting new threads. 16" tap and reamer wrench.

Write for catalog today on the complete Rimac Line.

RINCK-McILWAINE, INC.
16 Hudson Street, New York N. Y.

3831-25

4555-25

PRESTON DELIVERS THE GOODS

Safe and Sound...on Schedule

with Firestone TIRES

TRANSPORT

C C HIGHWAY

Ten thousand miles a day — that's the pace Preston sets! With over 200 pieces of equipment rolling along the congested metropolitan sector of the Eastern Seaboard, Preston Trucking Company, Inc. has built a solid reputation for prompt service.

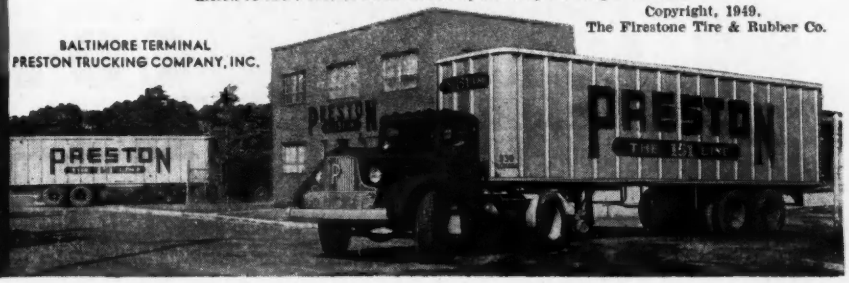
Exclusive use of Firestone Tires is one big reason why Preston always gets there on time. Preston is one of the many successful trucking firms that has found Firestone Tires unmatched for long, dependable, low-cost mileage.

Your fleet may roll under different conditions than Preston's. But there's one thing you can enjoy in common, and that's the dependability of Firestone Tires. Try them and you'll find they save you time and trouble, deliver most miles per dollar.

Listen to the Voice of Firestone every Monday evening over NBC

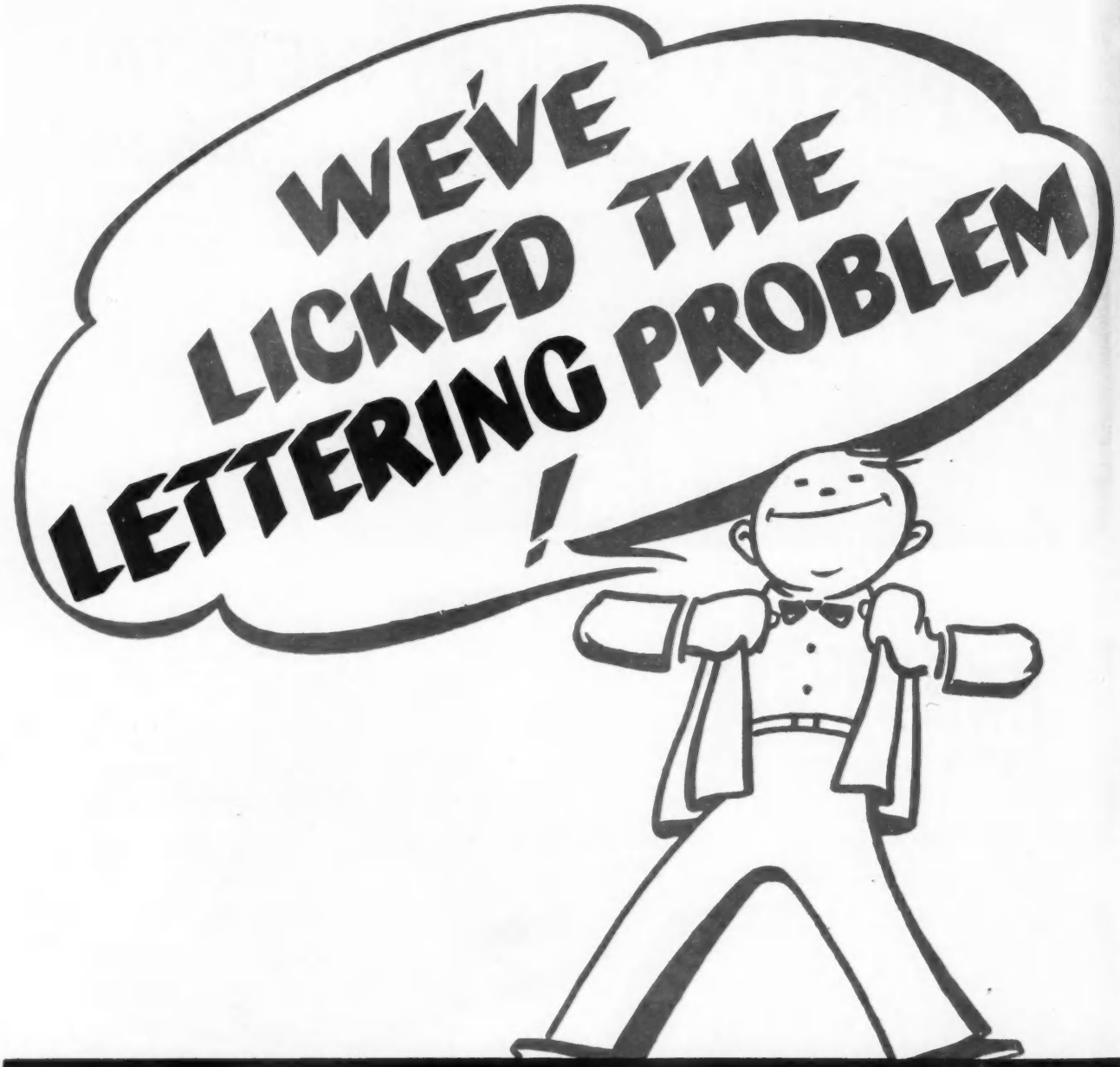
Copyright, 1949,
The Firestone Tire & Rubber Co.

BALTIMORE TERMINAL
PRESTON TRUCKING COMPANY, INC.



When Buying New Tires or New Equipment
Always Ask for **FIRESTONE TRUCK TIRES**
"For Every Load, Road and Condition of Service"

3840-1



The time-saving, cost-cutting C. O. Dicks' Lettering Systems are licking the lettering problems for many of the nation's largest fleet operators . . . Now, the lettering or trademarks on the sides of all your vehicles can be uniform, beautiful and permanent as the finish to which they are applied if they are spray-painted through our adhesive stencils with the same lacquer or enamel as the body finish . . . Lettering not affected by washing or polishing with strong soaps, cleaners or mechanical equipment . . . Workmen in your shop can easily and quickly apply this method to your trucks—no experience necessary. Write for free booklet, "WE'VE LICKED THE LETTERING PROBLEM."

C·O·DICKS CO

READY-CUT PAPER MASKS FOR SPRAYING DESIGNS

SINCE 1934

DETROIT 4, MICH. 8544 GRAND RIVER • PASADENA 2, CAL. 7 STATE STREET • CHICAGO 3, ILL. 7 SOUTH DEARBORN • BOUND BROOK, N.J. LINCOLN BOULEVARD

3531-1

"MOST MECHANICS *depend on* McCORD GASKETS BECAUSE THEY . . . Seal Rite–Seal Tite"

A NEW GASKET EVERY TIME IS *Cheap Insurance!*

There is nothing in the appearance of a McCord gasket to indicate its superior sealing qualities. Place it on a cylinder head between a metal joint—tighten down and you have safe sure protection against leaks. That's McCord gasket engineering and the reason why most good mechanics depend on McCord gaskets.

McCORD CORPORATION
DETROIT 11, MICH.

YOU CAN DEPEND ON McCORD GASKETS—MOST CAR MAKERS DO

2140-1

EVERY INCH OF EVERY

heavy-duty caliber CHASSIS
Extra-sturdy, built of high-quality steel... Extra-wide for more stability and maneuverability... Extra-low for easier lifting of close-to-the-ground vehicles.

heavy-duty caliber LIFTING ARM
Extra-strong malleable iron... guaranteed unbreakable.

heavy-duty caliber SADDLE
Swivels for easier placement... Extra-large and sturdy... 6¾" diameter accommodates largest truck axles.

heavy-duty caliber HANDLE
Always in full control of pump through 90° travel... easily removable... pivoted closer to floor for greater stroke under low-slung vehicles.

heavy-duty caliber POWER UNIT
Easily removed for servicing... positive pump action assures smooth operation with minimum wear.

AUSCO HYDRAULIC FLOOR JACK
Capacity **2 tons**

AUSCO HYDRAULIC CURB JACK
Capacity **1½ tons**

heavy-duty caliber CASTERS
Equipped with full thrust-type ball bearings for easy swiveling at maximum lead.

AUSCO Jacks

Copyright 1949 by Auto Specialties Mfg. Co.

R-3468

AUSCO HYDRAULIC IS ...duty caliber

Just one look will tell you that these "big guns" of the AUSCO Jack line are *every inch* HEAVY-DUTY CALIBER.

Every inch of the Hydraulic Floor Jack, with its 134-pound solid steel chassis, is built for years of exceptional lifting duty. *Every inch* of the Hydraulic Curb Jack, with its 405-pound compact steel body, is built for extra maneuverability and quick on-the-spot servicing.

For smooth, dependable lifting power, you can't beat AUSCO's Hydraulic Axle Jacks. Exclusive "in-line" valve action starts the lifting operation instantly...simultaneous with the first stroke of the handle to eliminate all lost motion and wasted "elbow grease."

Let your helpful AUSCO Jobber show you how you these Heavy-Duty Caliber Hydraulics can help you raise the caliber of your servicing operations. He carries a complete line of AUSCO Jacks for every heavy-duty service. See him today or write for latest AUSCO Catalog.

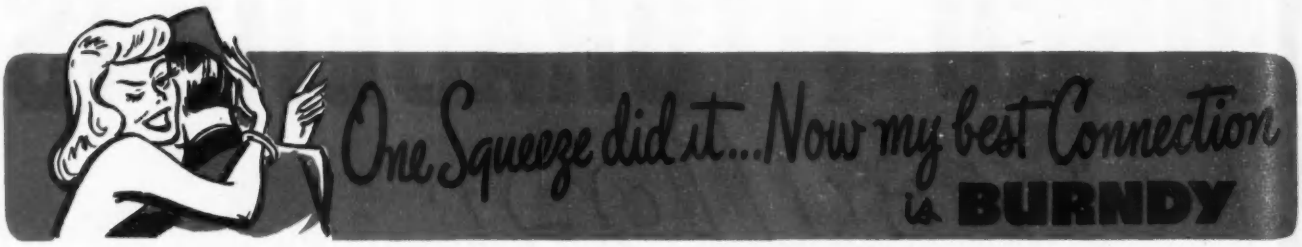
AUTO SPECIALTIES MFG. CO., Dept. CC-11, St. Joseph, Michigan
Other plants: Benton Harbor and Hartford, Mich.; Windsor, Ont., Canada

AUSCO HYDRAULIC AXLE JACK

Ram assembly easily removed for servicing . . . exclusive patented base for "self-aligning" of load . . . "instant-flow" safety release screw . . . piston cup made of highest quality, non-wearing material.

D-1501—1½ tons
D-1511— 3 tons
D-1521— 5 tons
D-1531— 8 tons
D-1541—12 tons

2034-2

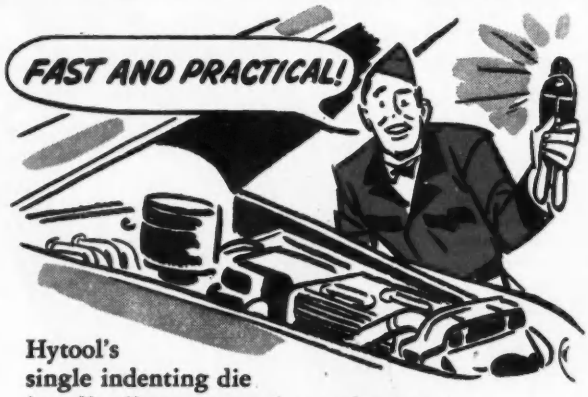


It was the squeeze, if you please, of a Burndy Hytool on a Hydent connector and wire.

All Burndy connectors have one-piece, heavy-wall seamless construction. That means I can indent them anywhere . . . on the top, side or bottom!

Strong insulation grips dampen vibration, prevent wire breakage or fraying of the insulation!

With just 2 Burndy connector sizes I can connect No. 20 through No. 10 primary wire gauge . . . that's making less stock go a long way!



Hytool's
single indenting die
installs all connector sizes—also cuts
wire, strips insulation and closes insulation grips!

Convenient Burndy Handy Stock answers my needs but you can buy them almost any way you want them—in handy kits or in Super Stock quantities if you're a big user!

Ask your Jobber for one-piece, pure copper Burndy Hydent connectors and Hytool. Try them and treat yourself to swift and sure wiring. It's easier, faster, better—when you

Connect with

BURNDY

Burndy Engineering Co., New York 54, N. Y. • *Western Branch:* Vernon 11, California • *Canada:* BURNDY CANADA LTD., Toronto 8

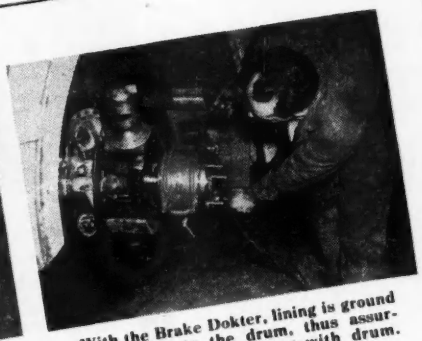
1541-1

Barrett Says:

Another Fleet Operator's Brake Problem Cured With Barrett Equipment!

Here's The Best Way To Get Safer, Longer-Lasting Brakes—Save Money On Maintenance And Down-Time—Make Brake Upkeep A Simple One-Man Job.

Barrett Brake Drum Lathe handles large or small drums on wheels. In the foreground is a grinder attachment.



With the Brake Dokter, lining is ground to conform to the drum, thus assuring full contact of lining with drum.

No More Brake Squeal for Us

by GEO. T. BROWN, Supt. Maintenance
Johnson Bus Lines, Inc., Milford, Mass.

CONSPICUOUS by its absence on this property is the squealing brake problem. Since we have not experienced even a trace of squealing brakes in more than five years, an attempt will be made to describe the methods we have used in servicing and overhauling brakes as well as the machinery used in obtaining results.

The drum lathe of our choice is a Barrett portable and the reasons for this selection are its accuracy and labor saving qualities. It is not necessary to remove tires from either single or dual wheels in order to machine the brake drums. Since the wheels are rolled on to the machine, the necessity for using a crane is eliminated and because of its maneuverability the machine can be brought close to the vehicle. Also, it is one of the few machines which can handle a drum 8 in. wide in one setting. The addition of the grinding attachment, in my belief, is very necessary.

After the relined shoes are installed, we next take a micrometer reading from the machined drum by means of a special gage and apply this dimension to set our spindle grinder or "Brake Dokter," the use of which aids greatly in adjusting eccentric brake anchors. It also detects an incorrect size brake block which on a rare occasion gets mixed with over sizes or is erroneously marked at the factory. It further assists in the detection of twisted or bent backing plates.

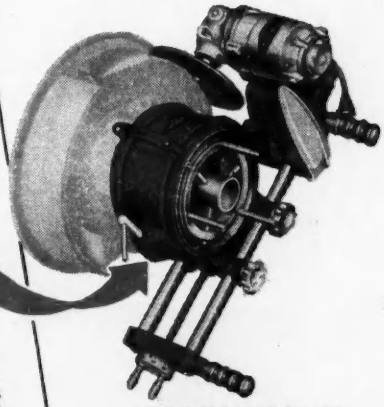
When the slack adjusters have been set to conform to the swinging radius of the machine disk, the motor can be switched on and a slight grinding taken of the linings. This has the effect of matching the brake lining surface so that it conforms to the drum diameter. Consequently a full contact of the two can be made on the first brake application. An efficient stop thus can be made with a minimum of friction.

* * * * * *

(Condensed and reprinted by permission of Bus Transportation)

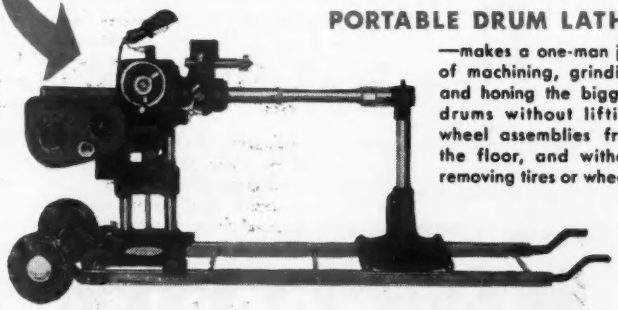
MR. GEORGE T. BROWN
Superintendent of Maintenance
JOHNSON BUS LINES
Milford, Mass.

—one of the thousands of Barrett Brake Service Equipment users and boosters.



BRAKE DOKTER

—approved, used or recommended by all car, bus and truck manufacturers.



PORTABLE DRUM LATHE

—makes a one-man job of machining, grinding and honing the biggest drums without lifting wheel assemblies from the floor, and without removing tires or wheels.

Barrett Equipment will lick 98% of all your brake troubles. Ask us to prove it on your toughest job in your own shop!

MAIL COUPON TODAY

BARRETT EQUIPMENT CO.
21st & Cass, St. Louis 6, Mo.

☐ We should like a demonstration of the Barrett Brake Drum Lathe and Brake Dokter.

☐ Send complete information on Barrett Brake Service Equipment for truck and bus use.

COMPANY_____

ADDRESS_____

CITY & STATE_____

SIGNED_____ 47

BARRETT EQUIPMENT COMPANY
The World's Finest Brake Service Equipment
21st and CASS AVENUE • ST. LOUIS 6, MISSOURI

1944-1

There is no substitute for CHAINS AND SAFETY

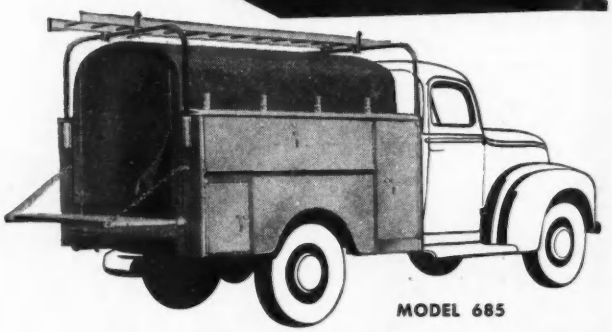
Campbell, *specially designed,* heavy duty chains assure you maximum protection! *You can't afford to risk lives and equipment on icy or slippery roads.*

You play safe when you use Campbell Lug-Reinforced Chains—they give maximum starting and stopping traction *and more miles per dollar!*

It Doesn't Pay to Take Chances . . .
Specify Campbell Lug-Reinforced Chains

CAMPBELL CHAIN *Company*
(International Chain & Mfg. Co.)
York, Pa.

Here's How The All-Steel All-Purpose Morrison "Carry-All" CUTS YOUR FLEET OPERATING COSTS 4 WAYS!



MODEL 685

1 BULKIER, HEAVIER PAYLOADS . . . Lightweight high tensile steel construction and a unique bridge-type underbody make the Morrison "CARRY-ALL" 25% lighter . . . 25% less "parasite" weight . . . 25% *beavier payloads!* The 48½ inch width of the heavy-duty offset-reinforced non-skid floor — the additional 25-inch width of compartments provide *extra space for bulkier loads!*

2 POSITIVE PROTECTION AGAINST WEATHER AND THEFT . . . Morrison "CARRY-ALL" compartments are Wise key-locked-and-handled . . . self-locking! Double latches and double steel paneled doors protect contents at all times! The Morrison "CARRY-ALL" is designed, engineered and manufactured to such standards of precision that all compartments are *completely weatherproof!* Parts are interchangeable.

3 A DESIGN FOR EVERY JOB! . . . The Morrison "CARRY-ALL" is designed for ready adaptation to any job . . . *any industry!* Morrison made provisions in the basic design for (and has made available) a selection of specialized equipment . . . everything from canvas tops to vise brackets . . . from sliding metal roofs to overhead ladder racks!

4 LOWER INITIAL COST—LOWER DEPRECIATION AND MAINTENANCE! . . . The world's first and only service and utility body which is *completely mass-produced by automotive assembly-line techniques!* More dollar value! What's more — each dollar saved on your initial investment is matched by lower depreciation and maintenance costs . . . the Morrison "CARRY-ALL's" die-stamped-steel, electrically-welded construction is rugged enough to outlast the chassis!

CARRIE ALL

Morrison "CARRY-ALL" Service Body fits all standard ½, ¾ and 1 ton chassis . . . five models suit every need. Write for Bulletin B49-1-B — "A Guide to the Selection of Service Bodies". It's yours FREE for the asking.

The all-industry Morrison "CARRY-ALL" is carried in stock for immediate delivery to franchised chassis dealers by more than 50 established truck equipment distributors strategically located from coast to coast.

MORRISON STEEL PRODUCTS, INC.
"Carry-All" Service Body Division

603 AMHERST ST. • BUFFALO 7, N. Y.

3830-50

3831-50

Here's top filtering mileage!

Yours with Purolator Micronic's 10 feet of filtering surface that holds 290% more dirt!

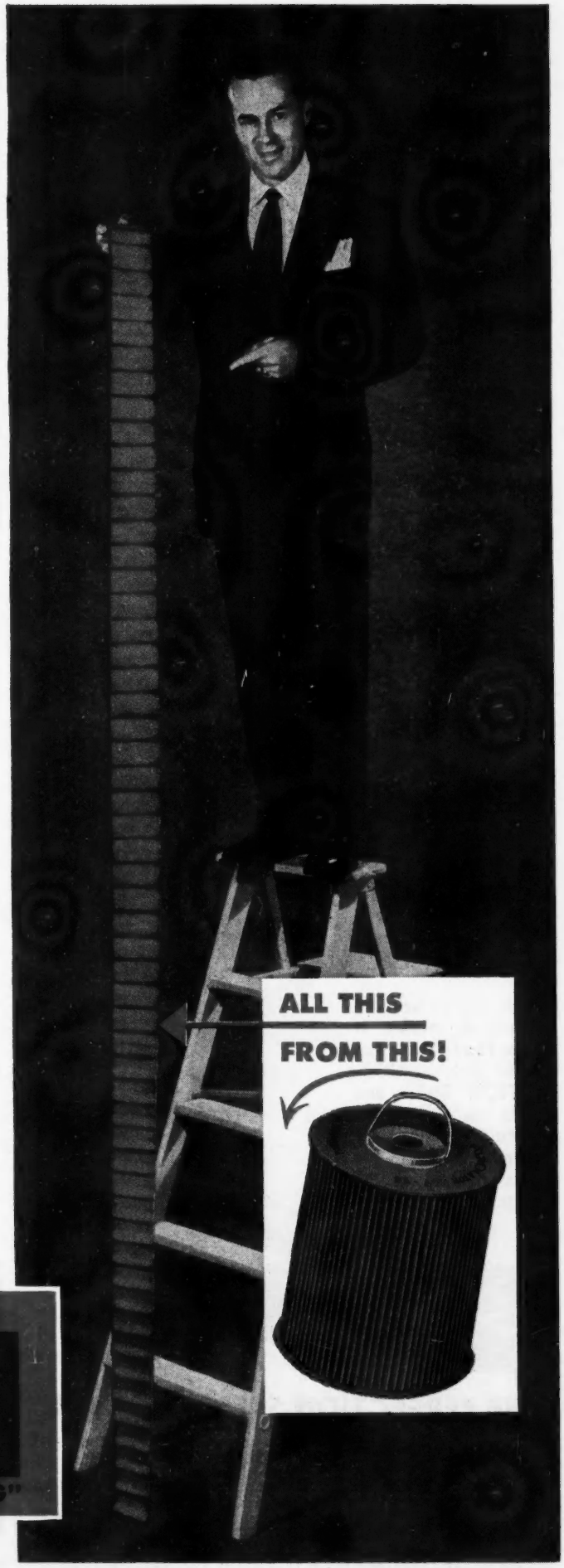
You'll find that Purolator Micronic Oil Filters last longer—save important money in refill purchases.

That's because even the *smallest* automotive type Micronic element has 570 square inches of effective filtering surface compared to 54 square inches in ordinary oil filters . . . holds much more dirt.

Even more important . . . Purolator Micronic saves big money by giving your fleet *top protection* from engine-wrecking abrasives. It removes particles measured in *microns* (.000039 of an inch) from the oil. It traps an average of 290% more abrasives than comparable size filters as proved by competitive tests!

Cut *your* refill bills, down-time, engine repairs. Contact your Purolator supplier for a Micronic refill for practically any make vehicle or original filter!

HERE'S PROOF THAT PUROLATOR GIVES ENGINES GREATEST PROTECTION!	COMPETITOR	IN AVERAGE DIRT RETENTION PUROLATOR LED BY:
	A	199%
	B	220%
	C	113%
	D	547%
	E	164%
	F	619%
	G	255%
	H	339%
	I	318%
	J	193%
	K	237%
	AVERAGE PUROLATOR SUPERIORITY	290%



PUROLATOR

MICRONIC OIL FILTER

"FIRST IN THE FIELD OF FILTERING"

PUROLATOR PRODUCTS INC.

Newark 2, New Jersey; and Windsor, Ontario, Canada

2241-1

PERFECTION

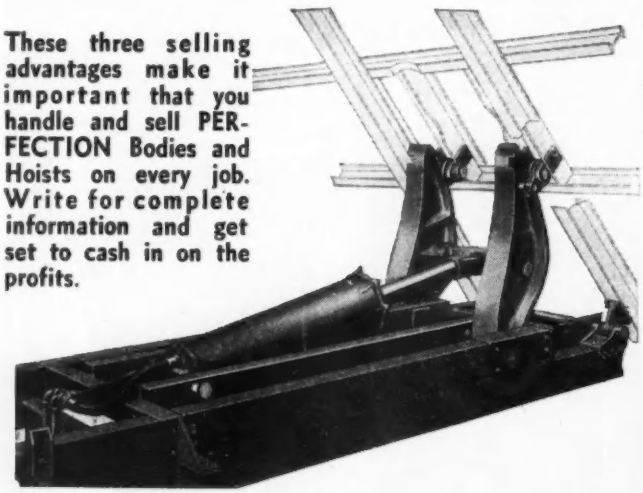
BODIES and HOISTS have all 3-

DESIGNED TO THE JOB

CONSTRUCTED TO LAST

PRICED TO APPEAL

These three selling advantages make it important that you handle and sell PERFECTION Bodies and Hoists on every job. Write for complete information and get set to cash in on the profits.

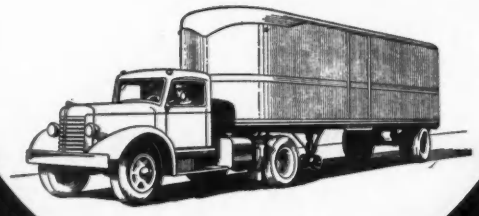


THE PERFECTION STEEL BODY CO.
Galion, Ohio, U.S.A.

PERFECTION
STAKE and DUMP BODIES
HYDRAULIC HOISTS

FOR ANY TRUCK
STANDARD or SPECIAL UNITS
IN ALL SIZES • FOR ANY USE

Increase Your Truck's Carrying Capacity



Why make your trucks haul unnecessary, non-profit-earning DEADWEIGHT that reduces the PAYLOAD part of their legal gross poundage? MECHANICS Roller Bearing UNIVERSAL JOINTS Truck PROPELLER SHAFTS are made 34% lighter, run smoother and place much less load on transmission and pinion bearings — without loss of torque. Let our engineers help add to the ton-mile capacity of your trucks by specifying weight-saving MECHANICS Roller Bearing UNIVERSAL JOINTS Truck PROPELLER SHAFT applications.

MECHANICS UNIVERSAL JOINT DIVISION
Borg-Warner
2034 Harrison Avenue
Rockford, Illinois

With 34% Lighter

MECHANICS
Roller Bearing
UNIVERSAL JOINTS
For Cars · Trucks · Busses and Industrial Equipment

3831-50

1941-50

Your FLEET WILL TRAVEL MORE "TROUBLE-FREE" MILES

WHEN YOU USE

WHITAKER

"707" SPARK PLUG CABLE

WITH *COROBAN*

Fleet owners Report "75% to 100% *Longer Life*"...

• To prove its superiority beyond all doubt, WHITAKER gave the new "707" Spark Plug Cable the most conclusive tests we could devise.

"707" was installed in commercial vehicles across the nation for long-term testing under practical, everyday operating conditions. Fleet men were amazed and confirmed the superiority of "707" in detailed, signed Performance Reports—*based on facts, not personal opinions!*

Test it yourself—any way you choose. We sincerely believe that WHITAKER "707" will prove, beyond doubt, the finest spark plug cable you ever used!

THE COMPLETE LINE OF WHITAKER QUALITY CABLE PRODUCTS

"Flashweld" Battery Cables • Replacement Battery Cables • Spark Plug Cable Sets • Spark Plug Cable • Primary Cable • Service Cable • Distributor Leads • Loom Assemblies • Trailer Connectors • Headlight Relays • Spark Plug Terminals • Rajah Terminals • Primary Terminals • Solderless Primary Terminals • Spee Dee Splice • Battery Terminals • Battery Cable Lugs • Battery Hold Downs • Battery Service Tools • Service Lights • Drop Lights

WHITAKER CABLE CORPORATION: General Office, Kansas City, Mo.

FACTORY BRANCHES: PHILADELPHIA, SAINT JOSEPH, LOS ANGELES

1531-1

The mileage you get from LEE TIRES is the index of their quality —a quality proved even more outstanding by the use of important new improvements in truck tire compounding.

Toughest Natural Rubber Treads

New natural rubber treads compounded with proper proportions of Philblack-O and other new compounding ingredients are combined to produce the toughest, best wearing and coolest running truck treads in LEE history.

Diversified Line

LEE offers a diversified line of truck, bus, special service and passenger car tires to fill practically every transportation requirement.

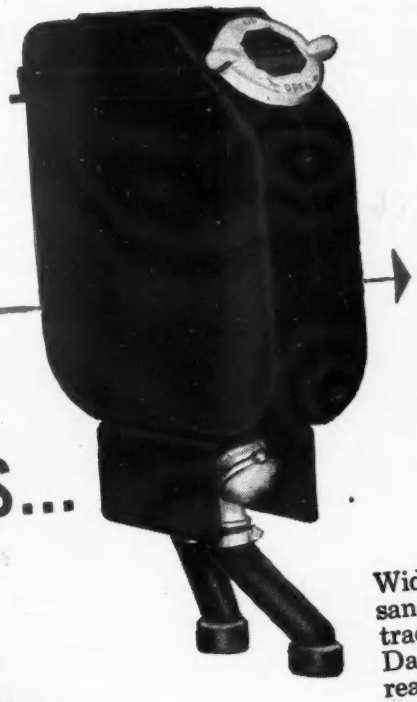
Coast to Coast

No matter where you are located, you can enjoy the advantages of using LEE TIRES, thanks to the 19,000 LEE Dealers coast to coast, and the strategically placed distributors and warehousing points throughout the country.

Whether you transport people or merchandise, it will pay you to specify and use LEE TIRES. They're dependable . . . and economical. For further information, call the LEE Branch or Distributor nearest to you—or write,

LEE TIRE & RUBBER COMPANY
of New York, Inc.
DIVISION OF LEE RUBBER & TIRE CORPORATION
CONSHOHOCKEN, PA.

ACCIDENTS SAFELY... and on Time!

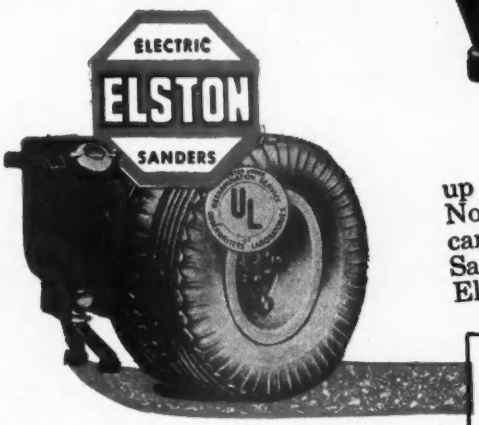


PREVENT SKIDS

MAINTAIN SCHEDULES...

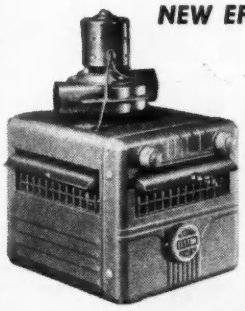
ELSTON ROAD SANDERS

Widely used, highly praised by thousands of fleet owners. Provides instant traction on icy roads, curves, grades. Dash-mounted electric control—always ready. Built for years of rugged service. Reduces tieups and accidents— steps up road time. Foolproof, dependable, easy to install. Non-clogging—sealed against moisture. Protect lives, cargoes, delivery schedules with fleet-proved Elston Sanders! Write for free descriptive folder showing how Elston Sanders pay!



- √ Positive Skid Control
- √ Easy to Install, Service
- √ Saves Trucks and Tires
- √ Affects Insurance Costs
- √ Protects Delivery Schedules
- √ Road-Tested 16 Years

NEW EFFICIENCY IN TRUCK HEATING!



INSTALL ELSTON TRUCK HEATERS

New Elston Truck Heaters provide more heat from smaller unit, introduce new quick-service features that eliminate tieups, cut maintenance costs. 3-direction heat distribution plus effective pressure defrost system. Rugged construction—easy installation. Get full details now.

HIGHWAY SAFETY APPLIANCES, INC.

1381 MARSHALL AVENUE • ST. PAUL 4, MINNESOTA

ELSTON PRODUCTS include Truck, Bus, Rail and Passenger Car Sanders and Truck Heaters

3830·1

For Safety Sake

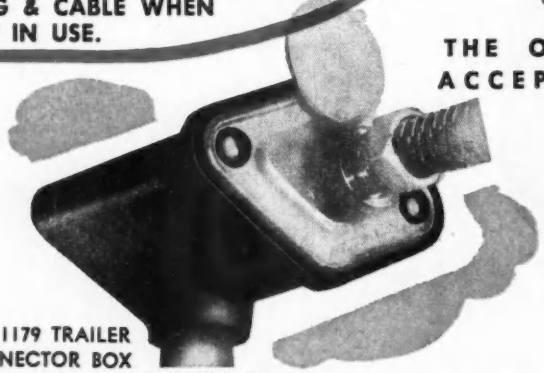
HAVE PROPER CURRENT AT THESE LIGHTS!

INSTALL AN EXTRA TRAILER CONNECTOR BOX TO PROTECT PLUG & CABLE WHEN NOT IN USE.

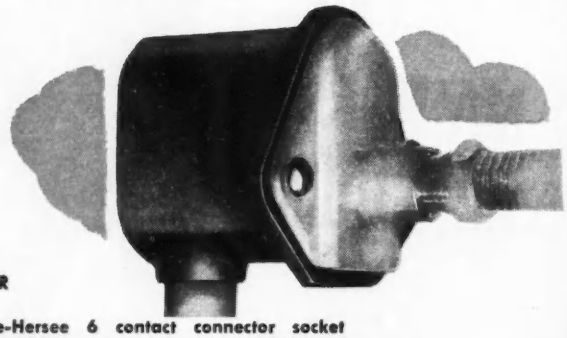
For Safety Sake

Specify COLE-HERSEE

THE ONLY ORIGINAL TRAILER CONNECTORS ACCEPTED BY LEADING MANUFACTURERS



NO. 1179 TRAILER CONNECTOR BOX
Accommodates standard Cole-Hersee connector sockets — No.'s 1185, 1192, 1195, 1198 by trimming rear of socket shell; and, new sockets No.'s 1200 to 1207 inclusive.



NO. 1180 TRAILER CONNECTOR BOX
Accommodates Cole-Hersee 6 contact connector socket No. 1171 only. No. 1208 — complete unit consisting of No. 1171 connector socket and No. 1180 box.

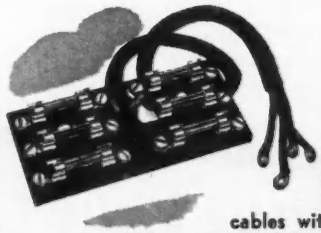
NO. 1197 HEAVY DUTY TRAILER CONNECTOR
1198 socket and No. 1199 plug. Made of non-ferrous metal to prevent corrosion and freezing of parts. Tapered and split bushing securely clamps the outside of the cable diameter, also eliminates all strain on individual conductors. Male and female ends are doubly polarized to insure respective electrical circuits always being made with the same contact. Sockets fit No. 1179 box by trimming rear of socket shell.

NO.'s 1200-1207
New series of sockets designed specifically to fit Connector Box No. 1179. Construction same as No. 1198.

NO. 1170 HEAVY DUTY LOCK TYPE TRAILER CONNECTOR
Consists of No. 1171 socket and No. 1172 plug. Automatically locks plug into position with a simple release for disconnecting. No external springs, rivets, or hinges — all mechanism totally enclosed. Automatic weatherproof closure. Six pole style only — mounting holes 2-15/16" on centers and sized to clear 1/4" diameter screws.

NO. 1160 "SEALTITE" LICENSE CONTAINER
Moisture-proof, dust-proof, rust-proof for all legal papers on trucks and trailers. Permits mounting in concealed position thru 3/16" hole in 1-7/8" diam. flange.

NO. 5027 HEAVY DUTY 40 AMPERE SWITCH
Two position "on and off". Heavy canvas reinforced bakelite construction with screw-on knob. Silver inlaid contactors. Mounts thru 1/2" hole; width — 1-1/4"; overall length — 3-3/8".



NO. 4064-A FUSED JUNCTION BLOCKS WITH CABLES
Complete with six 20 ampere fuses and 4 wire cables with eyeletted terminals, wire coded for easy assembling. Mounted on bakelite base.

COLE HERSEE CO. 20 OLD COLONY AVE. BOSTON 27, MASS. Manufacturers of Quality Automotive Electrical Equipment

15341

Federals Have Won . . .
By Costing Less to Run

That's Why FEDERALS Should be Working for You!

There are many important reasons why operating costs reach a new low with Federal Trucks on the job. They have the rugged strength to "take it" on the toughest of hauling schedules. They have the power and high torque characteristics to assure the handling of bigger payloads, in less time, with a minimum of down time. Back of this dependable on-or-off-the-road performance are twelve powerful engines with seven bearing crankshafts . . . rugged hypoid axles . . . big, fast-acting brakes . . . husky frames . . . easy steering . . . and an enviable reputation of more than 39 years standing in successfully meeting the needs of America's most profit-minded fleet operators. Put a Federal Truck on your job and you will see what we mean. See your Federal dealer today.

49 MODELS
¾ to 35 Tons
425 Combinations
with gross rating to over 90,000 pounds, including a full line of tandem axle units. Write today for line folder.

GASOLINE • DIESEL
FEDERAL TRUCKS
Since 1910

FEDERAL MOTOR TRUCK COMPANY • Detroit 9, Michigan, U.S.A.

3811-1

3323-25

1130-25

Federated GARDINER BRAND SOLDER IS GOOD SOLDER!

You don't buy a solder because John Doe has switched to that brand. You buy because you want a solder which will do two things—MELT FAST and PRODUCE A TIGHT BOND. Federated Gardiner brand Acid Core Solder does these two things best. All sizes, compositions.

A PRODUCT OF

Federated METALS

division of American Smelting and Refining Company
Whiting, Indiana (Chicago)

Federated first in the non-ferrous field FMD

G&O Radiators

84th Year

They're Good

THE G&O MANUFACTURING CO.

NEW HAVEN CONNECTICUT

THIS Simple TRUCK LOADER

CUTS DELIVERY COSTS 50%

ANTHONY LIFT GATE HYDRAULIC

More "LIFT GATES" in use than all others. Simplicity of design is one reason . . . Ruggedness is another. Extra features*—proved by 6 years of field experience—are more reasons why nearly all truck loaders you see are Anthony "LIFT GATES." Write for literature, prices.

*"LIFT GATE" rests on ground. No protrusions to prevent easy loading.

*Loads from all sides at all levels with "Quick Detachable" Ramp.

*Non-sloping—Gives "*Level-lift*" to avoid loads rolling or toppling off.

*Close "Gate" easily with one hand. No power needed.

*Safety Latch locks up. "LIFT GATE" cannot be lowered accidentally.

*Lower "*Point of Leverage*" gives more power with ¼ less working parts.

ANTHONY CO., Dept. 904, STREATOR, ILL.

LOWER MAINTENANCE COST .... *with*

FLOUR CITY FOUNTAIN BRUSHES

BUSWASH

This sturdily built round type brush connects to a hose so that the operator is supplied with a continuous stream of water. The head on each of these brushes is hollow, cast aluminum. Seamless steel tubing handles are 5 feet long. No. 650BM—Chinese bristle, flares to 8 inches, $12.75. No. 650H—horsehair, flares to 7 inches, $7.95 each.

FLEETWASH

Filled with pure Chinese bristles, this oblong type brush is built on an aluminum cast head. Bristles are set in bakelite in an aluminum plate which attaches to the aluminum head. Each brush is equipped with a seamless steel handle 5 feet long. No 366—Chinese bristle, flares to 12 inches, $14.75 each.

IF YOUR JOBBER CANNOT SUPPLY YOU, WRITE DIRECT

FLOUR CITY BRUSH CO. Mpls. 13, Minn.
PACIFIC COAST BRUSH CO. Los Angeles 21, Calif.

3831-25

2741-25

Delay is dangerous!

Order *CLEVELAND TIRE CHAINS* today!

Don't delay!

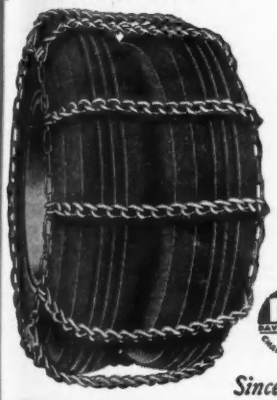
Place your order today for Sterling-Wearwell bus chains—manufactured and guaranteed by Cleveland Chain.

When roads are icy . . . when snow is deep, Cleveland Chains guard the lives of your drivers . . . protect your trucks against damage.

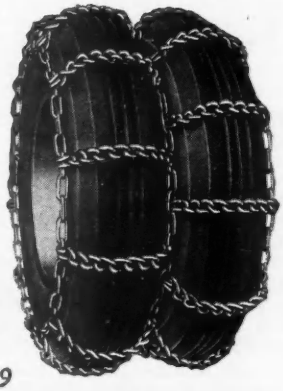
Extra life . . . more positive traction . . . added service satisfaction are built into every link. Cleveland truck chains wear and wear!

A-2277

Sterling Wear-Well
4-link spacing dual pneumatic truck chain



Sterling-Wearwell
dual pneumatic truck chain with triple side chain



Since 1869

CLEVELAND CHAIN

The Cleveland Chain & Mfg. Co.
Cleveland 5, Ohio

Associate Companies: David Round & Son, Cleveland 5, Ohio • The Bridgeport Chain & Mfg. Co., Bridgeport 1, Conn. • Seattle Chain & Mfg. Co., Seattle 8, Wash. • Round California Chain Co., So. San Francisco and Los Angeles 54, California Woodhouse Chain Works, Trenton 7, N. J.

Low Cost, Durable, Comfortable Seats

For Replacement or Original Equipment

- **Upholstered in U.S. Rubber Co.'s "Naugahyde"**
- **Soundly Engineered**
- **Rigidly Constructed**
- **Light Weight**
- **Attractively Priced**

Tubular and Bucket Types

. . . Adjustable Pedestals

(Above) No. 115 'METROPOLITAN' DRIVER'S SEAT

***Priced at* $14.85**
Pedestal Extra

We manufacture several types of TRUCK seats, spring or rubber filled.

Also a complete line of BUS SEATS. *Write for catalog.*

Equipped to REPAIR and REPLACE worn cushions on trucks and buses.

American Wicker Works

INCORPORATED

MANUFACTURERS OF TRANSPORTATION SEATING FOR TRUCKS AND BUSES

(CLIP AND MAIL COUPON BELOW TODAY)

AMERICAN WICKER WORKS, INC.
3105 East Twenty-Sixth St., Minneapolis 6, Minn.

Rush Price Schedule and Catalog:

NAME _____ TITLE _____

FIRM _____

ADDRESS _____ CITY _____ STATE _____

BODY MFG. ☐ DEALER ☐ FLEET ☐

3830-50

3832-50

3830-12

A **BIG** MIRROR AT A **SMALL** PRICE

"PANORAMA" TRUCK MIRROR

Rectangular 5 x 7-inch mirror, sealed tight in rubber. Clear or non-glare. Larger reflecting surface gives added safety. Bracket fits hinges 1¼" to 3¼". Reverses for body and cowl mounts. Different length arms available. Surprisingly low priced.

MIRROR PRODUCTS
13700 Lyndon Detroit 27, Mich.

Write for Literature

Jobbers and Distributors Wanted

FLEET OWNERS

3860-12

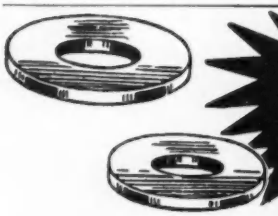
DON'T WASTE TIME

Reduce maintenance costs today with special repair service tools designed for WHITE MOTOR trucks and buses.

These tools simplify the difficult job and make the simple job a breeze.

Write Today for the NEW W.S.S.T. Catalog

Jergens TOOL SPECIALTY CO.
712 E. 163rd ST. • CLEVELAND 10, OHIO • KENMORE 2015



DON'T LET WASHERS TIE UP YOUR JOB!

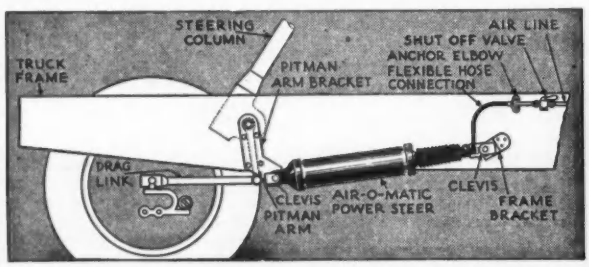
Every work bench should have the right variety of washers. The Whitehead assortment has all S.A.E. standard sizes. Reasonably priced.

712-13

ORDER THROUGH YOUR JOBBER

WHITEHEAD EST. 1903

WHITEHEAD STAMPING CO.
1685 W. LAFAYETTE BLVD., DETROIT 16, MICH.



EASIER AND SAFER TRUCK DRIVING

A compact, self-contained booster of simple construction, operated entirely by air. Works automatically, helping only as the operator of the vehicle leads the steering wheel in either direction. Reduces pull—gives better control—lessens strain on driver.

Details and technical information available on request. Write or wire for descriptive matter NOW!

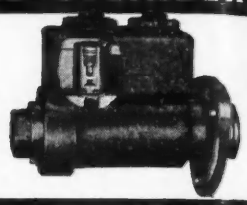
AIR-O-MATIC POWER STEER CORPORATION
2180 Lee Road CLEVELAND 18, OHIO

1944-13

FOR SURER, SAFER TRUCK STOPS

Install a **MICO** POWER BRAKE CYLINDER

A truly compound Hydraulic Brake cylinder that will more than double your braking power.



MINNESOTA AUTOMOTIVE, Inc.
1328 Hennepin Avenue, Minneapolis 3, Minnesota

4000-13

- CAN'T UNLOCK ACCIDENTALLY.
- EASY ONE-HAND OPERATION.
- OUTLASTS THE TRACTOR.

Proved and Approved... Everywhere!

Built by Railroad Coupler Specialists.
Dealers coast to coast.
Write for literature.

SAFE COUPLING

Series "400-C" Safety 5th Wheel, Tilting Type

A·S·F *Safety* 5th WHEEL
Automotive Division • American Steel Foundries
400 N. MICHIGAN AVE., CHICAGO 11, ILL.

Classified Advertisements

For Sale: Fifteen Brand New 1949 Reo Trucks, straight trucks, tractors—all warehoused located Middle West. Selling Distributors Cost. Write Box 16, Commercial Car Journal, 5601 Chestnut St., Phila. 39, Pa.

Special repair service tools—we have them. Write us about your special maintenance problem and we will try our darnest to help you. Valve jacks—wheel pullers and pushers—timken brake hooks—valve stem guides—reamers—frame and body repair equipment. Jergens Tool Specialty Co., 712 E. 163rd St., Cleveland 10, Ohio.

DISTRIBUTORS WANTED. NATIONALLY WELL-KNOWN MANUFACTURER WANTS REPRESENTATIVES TO HANDLE OUTSTANDING NEW LINE OF SADDLE AND CYLINDER SAFETY FUEL TANKS. SAFETY-ENGINEERED FOR EFFICIENCY, ECONOMY, DURABILITY, BACKED BY OVER 35 YEARS OF "KNOW-HOW" IN DESIGNING ALL TYPES OF FUEL TANKS FOR THE ENTIRE AUTOMOTIVE INDUSTRY. QUALITY CONSTRUCTED, COMPETITIVELY PRICED, THESE FUEL TANKS ARE THE OUTSTANDING BUY ON THE MARKET TODAY. ALL REPLIES IN STRICTEST CONFIDENCE. BOX 18, COMMERCIAL CAR JOURNAL, 5601 CHESTNUT STREET, PHILADELPHIA 39, PA.

COMMERCIAL CAR JOURNAL

Is the Leading Publication in the TRUCK FLEET Field

3820-1

2510·25

3814-25

RESTORES damaged... rusty... flat... battered THREADS

Buckingham
THREAD CLEANER

● No need to saw off a damaged bolt or remove a corroded stud. No expensive replacements or hand clean-up. Just a few twists of your Buckingham Thread Cleaner and threads are smoothed up, free-running — *restored.*

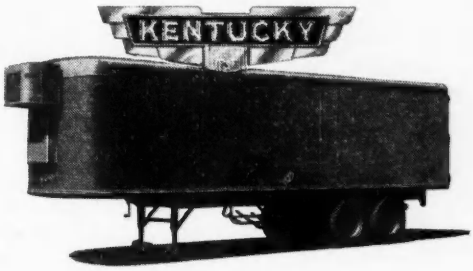
Works on any thread, right or left-hand; even *tapered pipe threads* . . . because the cutting blades adjust to wide range of root diameters. Correctly follows any pitch — no need to insert or change dies. Ideal for removing deposits or corrosive agents while dismantling and reassembling jobs of various kinds.

NOW in 3 sizes

No.	Weight	Root Diam.	Price
6103	1 lb.	1/4" to 1"	$ 6.00
6104	2 1/2 lbs.	1" to 2-9/16"	11.00
6106	7 lbs.	2" to 4"	25.00

Over 800 authorized dealers — see the one nearest you—or write us for further information about this mighty useful, time-saving tool.

BUCKINGHAM MANUFACTURING CO., INC.
75-77 Travis Street Binghamton, N. Y.



HAVE YOU INVESTIGATED

the sudden switch to the complete line of

KENTUCKY TRAILERS?

Now over 50 fully equipped strategically located sales and service stations across the nation READY TO SERVE YOU.

KENTUCKY MANUFACTURING COMPANY
R. C. TWAY COMPANY, *Incorporated,* OWNER
2601 South THIRD Street, Louisville 8, Ky.
Since 1879

BY USING THE IMPROVED

"EXPELLO" CONDENSATE VALVE

TO AUTOMATICALLY DRAIN YOUR AIR TANKS DURING OPERATION

From coast-to-coast and border-to-border, there are more "Expello" Condensate Valves in use than all other automatic air tank drain valves combined. This overwhelming preference results from the superior performance and long, trouble-free life of "Expello" Valves, the national standard on buses and trucks.

Made in Three Models
- Model C-1—12 Volt heating element
- Model D-1—6 Volt heating element
- Model B-1—No heating element

Specify "Excello" Valves as original equipment on new vehicles. Install them now on your present vehicles . . . don't wait for bad weather. "Expello" Valves quickly pay for themselves. For further information see your service parts dealer or write to:

FLEET OPERATORS SERVICE LABORATORY
Dearborn, Michigan • Main P. O. Box 117

The New HIGH CAPACITY

"SAFETY-FILL" by Buckeye

THIS new Buckeye nozzle combines *extra capacity* with the safety and economy features of the No. 820 "Safety-Fill." It delivers up to 80 gallons per minute depending on pump capacity—shuts off automatically at the main valve when gasoline (or other liquid) covers the spout end. Eliminates spilling, waste or damage. Delivers fuel in large quantities and provides accurate control for the handling of many other liquids. Send coupon today for details.

BUCKEYE IRON AND BRASS WORKS, Dept. C, Box 883, Dayton 1, Ohio
Please send details on Buckeye No. 890 "Safety-Fill" Nozzle.

NAME_____

ADDRESS_____

CITY_____ZONE_____STATE_____

2231-25

1F40-25

Index to Advertisers

This Advertisers' Index is publish... of the advertising contract. Ev... rectly. No allowance will be ma...

AC Spark Plug Division.....11-123-139
Aeroquip Corporation 251
Air-O-Matic Power Steer Corp.... 326
Air Reduction Sales Corp..... 154
Albertson & Co., Inc..... 243
Aluminum Co. of America..... 103
American Bosch Corp..... 191
American Brakeblok Div..... 115
American Chain & Cable Co., Inc. 263-278
American Coach & Body Co..... 299
American-Coleman Co., The..... 297
American Grease Stick Co..... 214
American Hammered Piston Rings 40-41
American Hoist & Derrick Co..... 260
American Steel & Wire Co..... 269
American Steel Foundries..... 326
American Wicker Works, Inc..... 325
Anthes Force Oiler Co..... 168
Anthony Co. 324
Arrow Safety Device Co..... 172
Auto Specialties Mfg. Co.....312-313
Autocar Company, The..... 26
Automotive & Aircraft Div. American Chain & Cable Co..... 263
Automotive & Marine Products Corp. 203

Barret Equipment Co..... 315
Bear Mfg. Co..... 197
Belden Mfg. Co..... 127
Bendix Aviation Corp.,
Bendix Products Div. 237
Marshall-Eclipse Div. 163
Zenith Carburetor Div..... 195
Bendix Westinghouse Automotive Air Brake Co..... 305
Biederman Motors Corp..... 254
Blackhawk Mfg. Co..... 51
Blood Bros. Machine Co..... 266
Bohn Aluminum & Brass Corp.... 187
Bostrom Mfg. Co..... 268
Bower Roller Bearing Co..... 173
Box 17 304
Braden Winch Company..... 143
Breeze Corporations, Inc..... 262
Brockway Motor Co., Inc..... 125
Brown Equipment & Mfg. Co..... 270
Brown Trailers, Inc..... 137
Buckeye Iron & Brass Wks..... 327
Buckingham Mfg. Co., Inc..... 327
Budd Co., The.....214-215
Burd Piston Ring Co..... 228
Burndy Engineering Co..... 314

Campbell Chain Company..... 316
Cargo Guard Company 190
Carnegie-Illinois Steel Corp..... 269
Casite Corporation, The..... 159
Cedar Rapids Engineering Co..... 247
Champ-Items, Inc. 306
Champion Spark Plug Co..... 14
Chevrolet Motor Div..... 282
Chrysler Corp. (Parts Div.)..... 44
Clark Equipment Co.....99-100
Classified Advertisements 326
Cleveland Chain & Mfg. Co..... 325
Cleveland Hardware & Forging Co. 162
Cole-Hersee Co. 322
Columbia Steel Co..... 269
Columbus-McKinnon Chain Corp.. 152
Continental Motors Corp..... 238
Cooper Tire & Rubber Co..... 50
Crescent Co., Inc., The..... 53
Cummins Engine Company..... 7
Curran Corporation 198
Curtis Pneumatic Machinery Div. Curtis Mfg. Co..... 304

Davisbilt Products Co., The..... 293
Dayton Steel Foundry Co..... 265
Delco-Remy Div. G. M..... 280
Deluxe Products Corp..... 257
DeVilbiss Company, The..... 149
Diamond T Motor Car Co.....117-118
Dicks Co., C. O. 310
Dill Manufacturing Co., The..... 170

Dodge Div., Chrysler Corp...2nd Cover
Dorsey Trailers, Inc. 295
Dow Chemical Co., The..... 135
Drum Jack Corporation..... 166
Duplex Truck Co..... 304
du Pont de Nemours & Co., Inc., E. I. 107

Eaton Manufacturing Co.....81-82
Eberhard Mfg. Co..... 206
Echlin Manufacturing Co..... 184
Edison, Inc., Thomas A..... 113
Electric Auto-Lite Co.....8-9-24-25
Electric Storage Battery Co., The 71
Erie Malleable Iron Co..... 242

F. A. B. Manufacturing Co..... 186
Federal-Mogul Service 183
Federal Motor Truck Co..... 323
Federated Metals Div..... 324
Firestone Steel Products Co..... 141
Firestone Tire & Rubber Co..... 309
Fitzgerald Mfg. Co., The..... 153
Fleet Operators Service Laboratory 327
Flour City Brush Co..... 324
Flower City Specialty Co..... 306
Ford Motor Co.....17-147
Foster & Kester Co., Inc..... 208
Four Wheel Drive Auto Co. Back Cover
Fram Corporation 223
Freedom-Valvoline Oil Co..... 267
Frenchtown Porcelain Co..... 283
Frink Sno-Plows, Inc..... 308
Fruehauf Trailer Co., The..... 231
Fuller Mfg. Co..... 16
Fyr-Fyter Company 259

GMC Truck & Coach Div..... 105
G & O Mfg. Co., The..... 324
Garrison Manufacturing Co..... 304
Gatke Corp. 258
Gemmer Manufacturing Co..... 302
General Tire & Rubber Co., The.. 32
Gillette Tires Div. United States Rubber Co. 62
Globe-Union, Inc. 235
Grey-Rock Div. Raybestos-Manhattan, Inc. 23
Griffin Lamp Co., The..... 249
Guide Lamp Div., G. M..... 272
Gulf Oil Corp..... 64
Gunite Foundries Corp..... 230
Gustin-Bacon Manufacturing Co... 281

Hansen Mfg. Co., A. L..... 89
Harrison Radiator Div..... 284
Haskelite Mfg. Corp..... 29
Hastings Mfg. Co..... 97
Hein-Werner Corp. 155-156-157
Hendrickson Motor Truck Co..... 273
Hercules Motors Corp..... 233
Highway Safety Appliances, Inc.. 321
Holland Hitch Co..... 255
Holley Carburetor Co..... 239
Hollingshead Corp., R. M.....54-55
Homestead Valve Manufacturing Company 204
Hoof Products Co..... 248

Imperial Brass Mfg. Co., The..... 209
Independent Pneumatic Tool Co... 185
Inland Manufacturing Div..... 274

Jergens Tool Specialty Co..... 326
Johns-Manville Corp. 61
Jones & Laughlin Steel Corp..... 307

K-D Lamp Company..... 200
Kelly-Springfield Tire Co., The.... 47
Kelsey-Hayes Wheel Co..... 301
Ken Tool Mfg. Co., The..... 306
Kendall Refining Company..... 261
Kentucky Mfg. Co..... 327
Kenworth Motor Truck Co..... 177
Kester Solder Co..... 232
Keystone Granite Quarry..... 304
Kim Hotstart Mfg. Co..... 329
King-Seeley Corporation 176
Kingham Trailer Co., Inc..... 287

Kinnear Mfg. Co., The..... 306
Koppers Co., Inc., Piston Ring Div. 40-41
Kysor Heater Company..... 229

Laitner Brush Co..... 260
Lee Tire & Rubber Co..... 320
Libbey-Owens-Ford Glass Co..... 271
Lindsay Structure, Inc..... 77
Lintern Corporation, The..... 303
Lipe-Rollway Corporation 279
Long Mfg. Div. 275

McCord Corporation 311
McInerney Spring & Wire Co..... 225
McKay Company, The..... 250
M & H Parts, Inc..... 304
Mack Trucks, Inc..... 56
Marion Metal Products Co..... 202
Marmon-Herrington Co., Inc..... 21
Mechanics Universal Joint Div.... 318
Meyercord Company, The..... 300
Michiana Products Corp..... 244
Mid-Continent Petroleum Corp.... 217
Midland Steel Products Co., The.. 34
Milwaukee Dustless Brush Co..... 285
Minnesota Automotive, Inc..... 326
Mirror Products 326
Molded Materials Div..... 196
Monmouth Products Co..... 306
Monroe Auto Equipment Co..... 276
Monroe Standard, Inc..... 304
Morrison Steel Products, Inc..... 316
Mt. Vernon Woodberry Mills..... 179

Nash Brothers Co..... 212
National Automotive Parts Assn... 167
National Tube Co..... 269
Neapco Products, Inc..... 178
Norlipp Co., The..... 308
Normandy Chemical Corp..... 205

Oakite Products, Inc..... 330
Ohio Oil Co., The..... 46
Olson Corporation, J. B. E..... 290
Orrville Body Company, The..... 222
Oshkosh Motor Truck, Inc..... 43
Owens-Corning Fiberglas Corp.... 296

P & D Manufacturing Co., Inc..... 246
Packard Electric Div..... 181
Parish Pressed Steel Co.....58-59
Perfect Circle Corporation..... 63
Perfection Steel Body Co., The... 318
Permalux Company, The..... 286
Permanente Metals Corp.....174-175
Permatex Co., Inc..... 1
Pittsburgh Plate Glass Company.. 289
Pittsburgh Steel Products Co..... 199
Prior Products, Inc.....192-193
Puritan Company, Inc..... 220
Purolator Products, Inc..... 317
Pyrene Manufacturing Co..... 194

Quaker State Oil Refining Corp.... 227

Advertisers

a convenience, and not as part
e will be taken to index cor-
errors or failure to insert

Ramsey Corporation 28
Raybestos Div. of Raybestos-Manhattan, Inc. 37
Reeves Brothers, Inc..... 291
Reo Motors, Inc.....Front Cover
Reynolds Manufacturing Co..... 298
Rinck-McIlwaine, Inc. 308
Ross & White Company..... 288
Ross Gear & Tool Co..... 20
Rubatex Division, Great American Industries, Inc. 256

SKF Industries, Inc..... 33
St. Paul Div., Gar Wood Industries, Inc. 3
St. Pierre Chain Corp..... 207
Schrader's Son Div., A..... 306
Sealed Power Corp..... 73
Service Recorder Co., The..... 210
Service Station Equipment Co..... 180
Shand & Jurs Co..... 234
Shell Oil Company.....108-109
Shuler Axle Co., Inc..... 95
Signal-Stat Corporation 188
Silent Hoist & Crane Co..... 262
Sinclair Refining Co.....92-93
Snap-on Tools Corp..... 308
Snyder Tank Corporation..... 306
Socony-Vacuum Oil Co., Inc.....78-79
Spark-O-Liner Corp. 165
Sparks-Withington Co., The..... 277
Spicer Mfg. Div. of Dana Corp..... 145
Springfield Electrical Specialties, Inc. 158
Stampings Incorporated 190
Standard Forge & Axle Co., Inc... 294
Standard Motor Products, Inc..... 236
Standard Oil Co. (Ind.)..... 31
Sterling Motor Truck Co..... 253
Stewart-Warner Corp. 292
Studebaker Corp. 75
Synchro-Start Products, Inc..... 164

Taylor Chain Co., S. C..... 330
Tennessee Coal, Iron & Railroad Co. 269
Texas Co., The..... 4-5
Thermoid Company 128-129
Thompson Products, Inc..... 131
Tide Water Associated Oil Co..... 36
Timken-Detroit Axle Co..... 213
Timken Roller Bearing Co., The... 111
Trailmobile Co., The..... 211
Trainor National Spring Co..... 216
Truck & Coach Heater Sales Co... 304
Truck Engineering Corp..... 218
Trucktor Corp., The..... 19
Tulsa Winch Div..... 219

U. S. Axle Co., Inc..... 224
Union Metal Mfg. Co..... 189
United Parts Mfg. Co..... 182
United Engine & Machine Co..... 169
United States Rubber Company... 62
United States Steel Corp..... 269

Vickers, Inc. 151

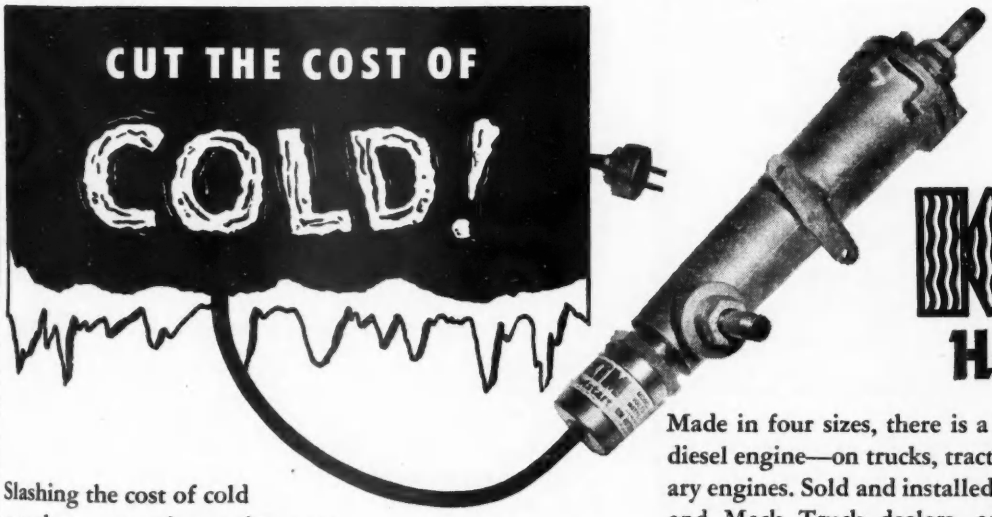
WGB Oil Clarifier, Inc..... 226
Wagner Electric Corp.....87-133-171
Walker Manufacturing Co..... 13
Walter Motor Truck Co..... 91
Ward LaFrance Truck Corp..... 241
Warner Electric Brake Mfg. Co... 39
Waterbury Tool Div..... 201
Waukesha Motor Co..... 245
Wayne Pump Co., The..... 264
Weed Chains 278
Wellman Co., S. K., The..... 160
Western Chain Co..... 240
Whitaker Cable Corp..... 319
White Motor Co., The..... 85
Whitehead Stamping Co..... 326
Willard Storage Battery Co..3rd Cover
Wiry Joe 53
Wohlert Corp. 306
Wolf's Head Oil Refining Co., Inc. 12
World Bestos Corp..... 121

Yankee Metal Products Corp..... 252
York-Hoover Corp. 161

Zollner Machine Wks..... 221

CUT THE COST OF

COLD!



KIM Hotstart

REG. U. S. PAT. OFF.

Slashing the cost of cold weather—excessive engine wear and repairs, worn out batteries, lost warm-up time, fuel waste—is easy when you install KIM Hotstart engine pre-heaters on your equipment. With these fool-proof heaters plugged into the electrical circuit, the engine is warm at starting time, and you cut the cost of cold in these five important ways:

Reduce engine wear and depreciation.
Prolong life of batteries
Eliminate warm-up time
Cut fuel consumption
Avoid necessity of heated terminals

Made in four sizes, there is a model for any gasoline or diesel engine—on trucks, tractors, automobiles or stationary engines. Sold and installed by International Harvester and Mack Truck dealers, and by leading automotive suppliers. See them for detailed information, or fill in and mail the coupon.

KIM Hotstart • *ENGINE PRE-HEATER*

KIM Hotstart Manufacturing Co.
West 917 Broadway, Spokane 11, Washington
Please send literature, prices and name of local dealer

Name_____

Address_____

City_____ Zone_____ State_____

Make and model of equipment_____

1840-50

FREE

Manual for SERVICE SHOPS

Tells how you can expedite maintenance, repair and overhaul

Here's a handbook of helpful hints that comes right out of the service shop. Its data is a record of successful, money-saving Oakite cleaning experiences in hundreds of shops. You get the plain, helpful facts on the basic degreasing and descaling procedures sure to help you speed such jobs as:

CLEANING carburetors, fuel pumps, parts before repair.

DESCALING cooling systems, radiators.

STRIPPING paint from truck, bus and car bodies.

WASHING bodies streak-free; walls and windows film-free.

STEAM-CLEANING of blocks, chassis, axles.

FOR YOUR FREE COPY, just send coupon below. NOW No obligation.

OAKITE PRODUCTS, INC., 22 Thames St., NEW YORK 6, N. Y.
Technical Service Representatives in Principal Cities of U. S. & Canada

☐ Send literature above.
☐ Have Representative demonstrate.

NAME _____

COMPANY _____

ADDRESS _____

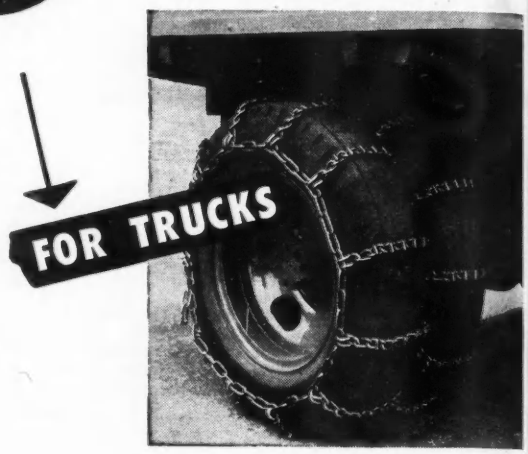
CCJ 11/49

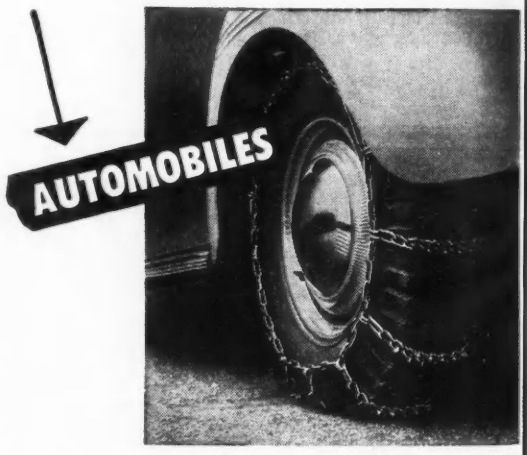
OAKITE
REG. U. S. PAT. OFF.

Specialized Industrial Cleaning
MATERIALS • METHODS • SERVICE

Keep repair and towing costs down!

USE T-M *Tire Chains*





Bar Reinforced and Twist Link Types

T-M Tire Chains pay off in *lower towing costs* and *lower repair costs* every time! They're a sure bet for safe and continuous highway travel under the most hazardous winter driving conditions. Available in Bar Reinforced or Twist Link Types—with two or four link spacing—for all makes and types of cars and trucks.

Common sense and your better business judgement dictate carrying chains at all times. Write today on letterhead for prices and further details.

S. G. TAYLOR CHAIN CO., 112 141st ST., HAMMOND, IND.

TAYLOR MADE
A GREAT NAME IN
Chain SINCE 1873

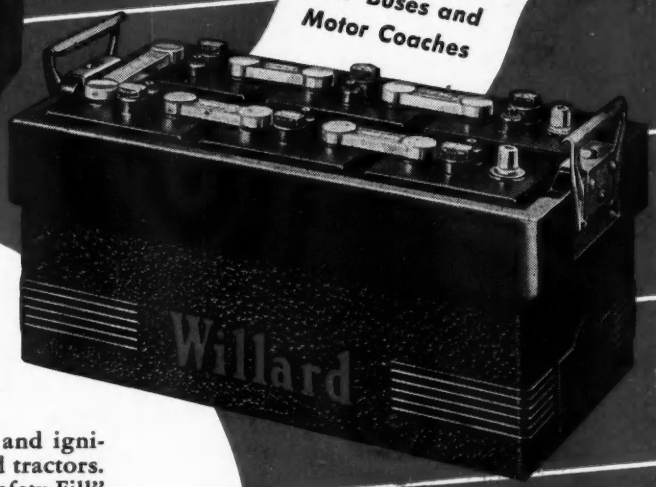
1293-50

3830-50

Buy Willard For

DEPENDABILITY · PERFORMANCE LONG LIFE!

TRG and TWG for Heavy Trucks and Tractors



BRG and BWG for Buses and Motor Coaches

THERE'S A Willard FOR EVERY BATTERY JOB

TRG AND TWG TYPES. For 6-volt starting, lighting and ignition on heavy Diesel or gasoline powered trucks and tractors. Sturdy, hard rubber containers. Exclusive Willard "Safety-Fill" construction to prevent over-filling. TWG types with selected wood separators and glass fibre retaining mats for normal service. TRG types with Willard Rubber Insulation and glass fibre retaining mats for cycling service and for vehicles in severe, high mileage service.

BRG AND BWG TYPES. For 12-volt starting, lighting and ignition on Diesel and gasoline powered motor coaches and buses. Strong, hard rubber containers. Exclusive Willard "Safety-Fill" construction to prevent overfilling. BWG types with selected wood separators and glass fibre retaining mats for normal service. BRG types with Willard Rubber Insulation and glass fibre retaining mats for cycling service and for vehicles in severe, high mileage service.

CWG TYPES. For 6-volt starting, lighting and ignition on light to medium weight trucks and for passenger cars in commercial service. Dual insulated with selected wood separators and glass fibre retaining mats. Sturdy, hard rubber containers. Exclusive Willard "Safety-Fill" construction to prevent overfilling.

CWG for Light Trucks

WILLARD STORAGE BATTERY COMPANY

Cleveland • Los Angeles • Dallas • Memphis • Portland • Toronto

1512-1

PROOF - *not Guesswork*

Makes FWD America's Foremost Heavy-Duty Truck

Here's actual operating proof in typical highway maintenance service. This FWD Maintainer is doing an everyday job — speeding over the road with a load of fill. Yes — the power and speed you need to get to location . . . get there quickly . . . and get there safely are built into every FWD Truck. What's more, you know this even before you buy. And here's why. Every FWD must pass a gruelling 50-mile road test on the proving ground before it leaves the factory. *No wonder FWD Trucks are the number one choice of states, counties and municipalities — with individual fleets of over 300 units!*

This is FWD's proving ground. This is your assurance that the FWD you select has the stamina to insure long life without expensive mechanical breakdowns.

An FWD takes the 50-mile road test at the proving ground. For all the facts on FWD Trucks, see your FWD distributor — or write direct.

An Invitation To Truck Buyers

We invite you to watch FWDs pass a series of rigid performance tests. Ask your FWD distributor to arrange your visit to our plant. Or — if you can't get away, ask him to show you the movie, *The FWD Story*. In either case, you will see for yourself how FWD trucks can help solve your heavy-duty trucking problems.

Marvin A. Olson
President
The Four Wheel Drive Auto Company

THE FOUR WHEEL DRIVE AUTO COMPANY
Clintonville, Wis. • *Canadian Factory:* Kitchener, Ontario
FOUR AND SIX WHEEL DRIVE TRUCKS

H-2

America's Foremost Heavy-Duty Truck

3811-1